

CITY OF ALBUQUERQUE

Planning Department
Alan Varela, Director



Mayor Timothy M. Keller

10/16/2025

Joshua Lutz, P.E.
Bohannon Huston Inc.
7500 Jefferson St. NE Courtyard I
Albuquerque, NM 87109

**RE: Woodbury Apartments
Tr A Tracts A Thru M City Center, Phase 1, Mesa del Sol
Grading and Drainage Plan
Engineer's Stamp Date: 10/6/2025
Hydrology File: R16D097C
Case #: HYDR-2025-00360/00305**

Dear Mr. Lutz:

Based upon the information provided in your submittal received 10/6/2025, the Grading & Drainage Plan **is approved** for Building Permit and Site Plan approvals.

PO Box 1293

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, 924-3420) 14 days prior to any earth disturbance.

Albuquerque

NM 87103

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

www.cabq.gov

Sincerely,

Tiequan Chen, P.E.
Principal Engineer, Hydrology
Planning Department, Development Review Services

GENERAL NOTES

- A. ALL WORK DETAILED ON THESE PLANS AND PERFORMED UNDER THIS CONTRACT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND THE PROJECT GEOTECHNICAL REPORT, WHERE APPLICABLE, CITY OF ALBUQUERQUE PUBLIC WORKS STANDARDS SHALL APPLY.
- B. THE CONTRACTOR SHALL ABIDE BY ALL LOCAL, STATE, AND FEDERAL LAWS, RULES AND REGULATIONS WHICH APPLY TO THE CONSTRUCTION OF THESE IMPROVEMENTS, INCLUDING EPA REQUIREMENTS WITH RESPECT TO STORM WATER DISCHARGE.
- C. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL POTENTIAL OBSTRUCTIONS INCLUDING ALL UNDERGROUND UTILITIES. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION OBSERVER OR ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
- D. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR SHALL CONTACT LINE LOCATING SERVICE FOR LOCATION OF EXISTING UTILITIES.
- E. ALL ELECTRICAL, TELEPHONE, CABLE TV, GAS AND OTHER UTILITY LINES, CABLES, AND APPURTENANCES ENCOUNTERED DURING CONSTRUCTION THAT REQUIRE RELOCATION, SHALL BE COORDINATED WITH THAT UTILITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL NECESSARY UTILITY ADJUSTMENTS. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR DELAYS OR INCONVENIENCES CAUSED BY UTILITY COMPANY WORK CREWS. THE CONTRACTOR MAY BE REQUIRED TO RESCHEDULE HIS ACTIVITIES TO ALLOW UTILITY CREWS TO PERFORM THEIR REQUIRED WORK.
- F. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITY LINES WITHIN THE CONSTRUCTION AREA. ANY DAMAGE TO EXISTING FACILITIES CAUSED BY CONSTRUCTION ACTIVITY SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE AND APPROVED BY THE CONSTRUCTION OBSERVER.
- G. CONSTRUCTION ACTIVITY SHALL BE LIMITED TO THE PROPERTY AND/OR PROJECT LIMITS. ANY DAMAGE TO ADJACENT PROPERTIES RESULTING FROM THE CONSTRUCTION PROCESS SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.
- H. OVERNIGHT PARKING OF CONSTRUCTION EQUIPMENT SHALL NOT OBSTRUCT DRIVEWAYS OR DESIGNATED TRAFFIC LANES. THE CONTRACTOR SHALL NOT STORE ANY EQUIPMENT OR MATERIAL WITHIN THE PUBLIC RIGHT-OF-WAY.
- I. THE CONTRACTOR SHALL OBTAIN ALL THE NECESSARY PERMITS FOR THE PROJECT PRIOR TO COMMENCING CONSTRUCTION (I.E., BARRICADING, TOPSOIL DISTURBANCE, EXCAVATION PERMITS, EPA STORM WATER PERMITS, ETC.).
- J. ALL PROPERTY CORNERS DESTROYED DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. ALL PROPERTY CORNERS MUST BE RESET BY A REGISTERED LAND SURVEYOR.
- K. THE CONTRACTOR SHALL PREPARE A CONSTRUCTION TRAFFIC CONTROL AND SIGNING PLAN AND OBTAIN APPROVAL OF SUCH PLAN FROM THE BERNALILLO COUNTY, TRAFFIC ENGINEERING DEPARTMENT, PRIOR TO BEGINNING ANY CONSTRUCTION WORK ON OR ADJACENT TO EXISTING STREETS.
- L. ALL BARRICADES AND CONSTRUCTION SIGNING SHALL CONFORM TO APPLICABLE SECTIONS OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD), US DEPARTMENT OF TRANSPORTATION, LATEST EDITION.
- M. THE CONTRACTOR SHALL MAINTAIN ALL CONSTRUCTION BARRICADES AND SIGNING AT ALL TIMES.
- N. THE CONTRACTOR SHALL TAKE ALL STEPS NECESSARY TO CONFORM WITH EPA REQUIREMENTS, INCLUDING COMPLIANCE WITH NPDES PHASE 2 REQUIREMENTS.

**City of Albuquerque
Planning Department
Development Review Services
HYDROLOGY SECTION
APPROVED**

DATE: 10/16/2025
BY: *Ignacio Chan*
HydroTrans # R16D097C

THE APPROVAL OF THESE PLANS/REPORTS SHALL NOT BE CONSIDERED TO PREVENT VIOLATIONS OF ANY CITY ORDINANCE OR STATE LAW, AND SHALL NOT PREVENT THE CITY OF ALBUQUERQUE FROM REQUIRING CORRECTIONS FOR ERRORS OR OMISSIONS IN PLANS, SPECIFICATIONS, OR CONSTRUCTION DOCUMENTS. SUCH APPROVED PLANS/REPORTS SHALL NOT BE CHANGED, MODIFIED OR ALTERED WITHOUT AUTHORIZATION. THE APPROVAL OF THESE PLANS/REPORTS SHALL EXPIRE TWO (2) YEARS AFTER THE APPROVAL DATE IF NO BUILDING PERMIT HAS BEEN FILED ON THE DEVELOPMENT.

GRADING NOTES

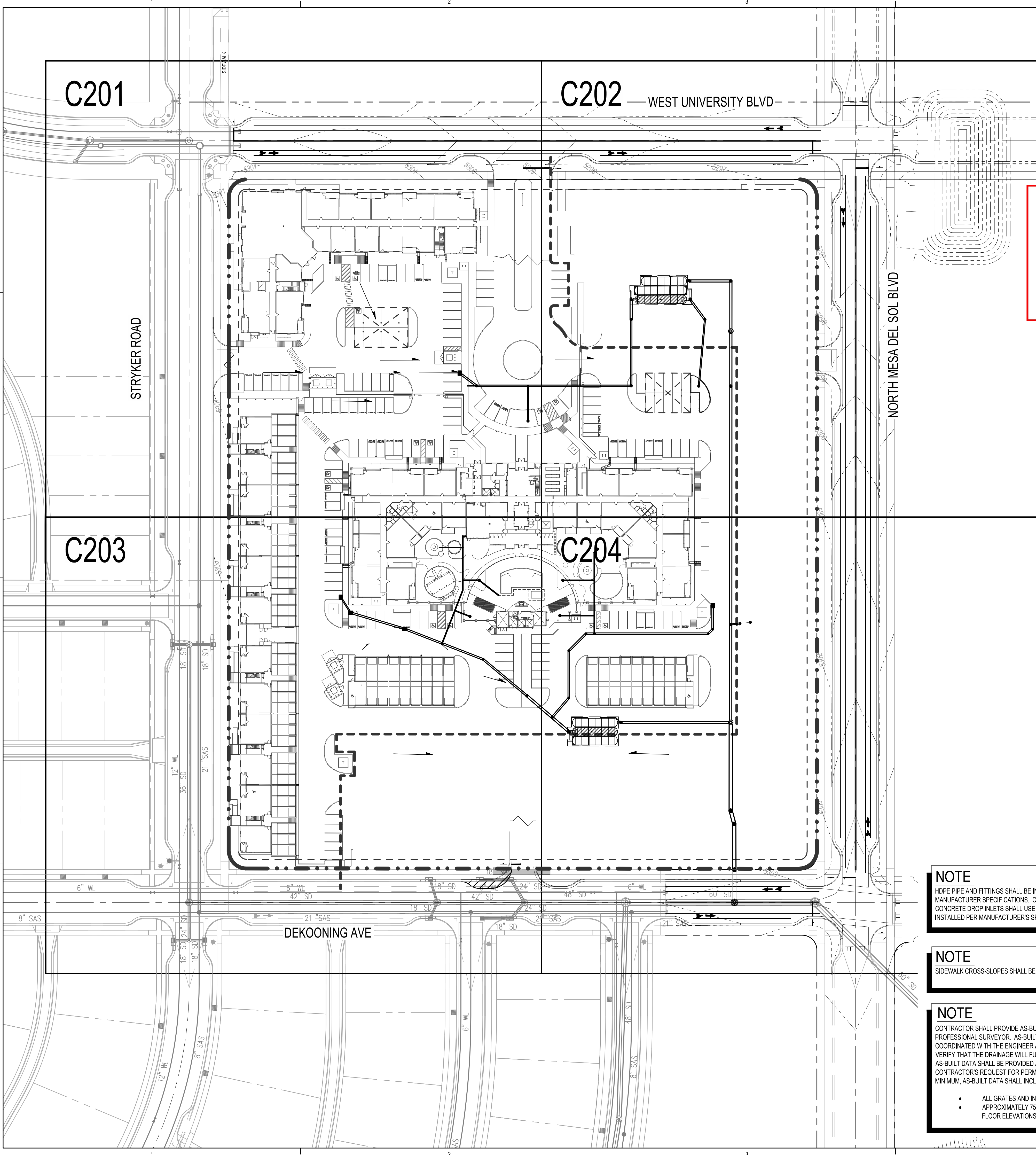
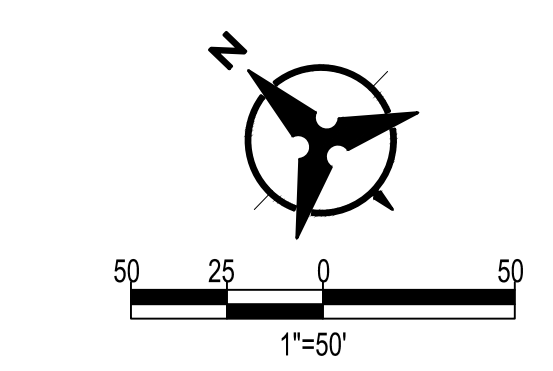
- A. EXCEPT AS PROVIDED HEREIN, GRADING SHALL BE PERFORMED AT THE ELEVATIONS AND IN ACCORDANCE WITH THE DETAILS SHOWN ON THIS PLAN.
- B. THE COST FOR REQUIRED CONSTRUCTION DUST AND EROSION CONTROL MEASURES SHALL BE INCIDENTAL TO THE PROJECT COST.
- C. ALL WORK RELATIVE TO FOUNDATION CONSTRUCTION, SITE PREPARATION, AND PAVEMENT INSTALLATION, AS SHOWN ON THIS PLAN, SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE "GEOTECHNICAL INVESTIGATION". ALL OTHER WORK SHALL, UNLESS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE PROJECT, (FIRST PRIORITY) SPECIFICATIONS, AND/OR THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS (SECOND PRIORITY).
- D. EARTH SLOPES SHALL NOT EXCEED 3 HORIZONTAL TO 1 VERTICAL UNLESS SHOWN OTHERWISE.
- E. IT IS THE INTENT OF THESE PLANS THAT THIS CONTRACTOR SHALL NOT PERFORM ANY WORK OUTSIDE OF THE PROPERTY BOUNDARIES EXCEPT AS REQUIRED BY THIS PLAN.
- F. THE CONTRACTOR IS TO ENSURE THAT NO SOIL ERODES FROM THE SITE ONTO ADJACENT PROPERTY OR PUBLIC RIGHT-OF-WAY.
- G. A DISPOSAL SITE FOR ANY & ALL EXCESS EXCAVATION MATERIAL, AND UNSUITABLE MATERIAL AND/OR A BORROW SITE CONTAINING ACCEPTABLE FILL MATERIAL SHALL BE OBTAINED BY THE CONTRACTOR IN COMPLIANCE WITH APPLICABLE ENVIRONMENTAL REGULATIONS AND APPROVED BY THE OBSERVER. ALL COSTS INCURRED IN OBTAINING A DISPOSAL OR BORROW SITE AND HAUL TO OR FROM SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT SHALL BE MADE.
- H. PAVING AND ROADWAY GRADES SHALL BE +0.1' FROM PLAN ELEVATIONS. PAD ELEVATION SHALL BE +0.05' FROM BUILDING PLAN ELEVATION.
- I. VERIFY ALL ELEVATIONS SHOWN ON PLAN FROM BASIS OF ELEVATION CONTROL STATION PRIOR TO BEGINNING CONSTRUCTION.

NOTE
HDPE PIPE AND FITTINGS SHALL BE INSTALLED AND BACKFILLED PER MANUFACTURER SPECIFICATIONS. CONNECTIONS TO CONCRETE MANHOLES AND CONCRETE DROP INLETS SHALL USE WATER STOP GASKETS AND SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS

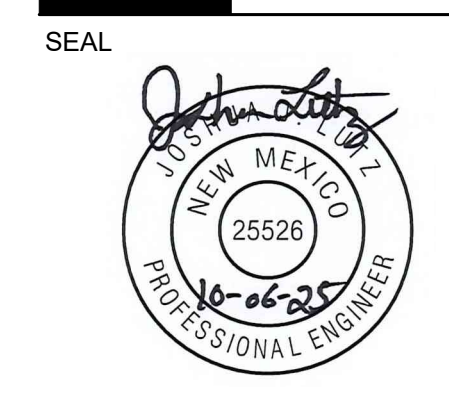
NOTE
SIDEWALK CROSS-SLOPES SHALL BE AT A MINIMUM OF 1.0% AND A MAXIMUM OF 2.0%

NOTE
CONTRACTOR SHALL PROVIDE AS-BUILT GRADING INFORMATION STAMPED BY A PROFESSIONAL SURVEYOR. AS-BUILT INFORMATION REQUIRED SHALL BE COORDINATED WITH THE ENGINEER AND SHALL BE SUFFICIENTLY DETAILED TO VERIFY THAT THE DRAINAGE WILL FUNCTION IN ACCORDANCE WITH THE DESIGN. AS-BUILT DATA SHALL BE PROVIDED AT LEAST 5 WORKING DAYS PRIOR TO CONTRACTOR'S REQUEST FOR PERMANENT CERTIFICATE OF OCCUPANCY. AT A MINIMUM, AS-BUILT DATA SHALL INCLUDE:

- ALL GRATES AND INVERTS OF CATCH BASIN
- APPROXIMATELY 75% OF ALL DESIGN SPOT ELEVATIONS & FINISHED FLOOR ELEVATIONS.



Dekker



**MESA DEL SOL-TRACT A
PHASE 1
(Tract A) UNIVERSITY BLVD.
SE ALBUQUERQUE, NM 87106**

PERMIT SET

REVISIONS	
△	07/15/2025 COORDINATION
△	08/01/2025 COORDINATION
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DRAWN BY	
REVIEWED BY	
DATE	03/24/2025
PROJECT NO.	22-0148.002

DRAWING NAME
OVERALL GRADING PLAN

SHEET NO.
C200

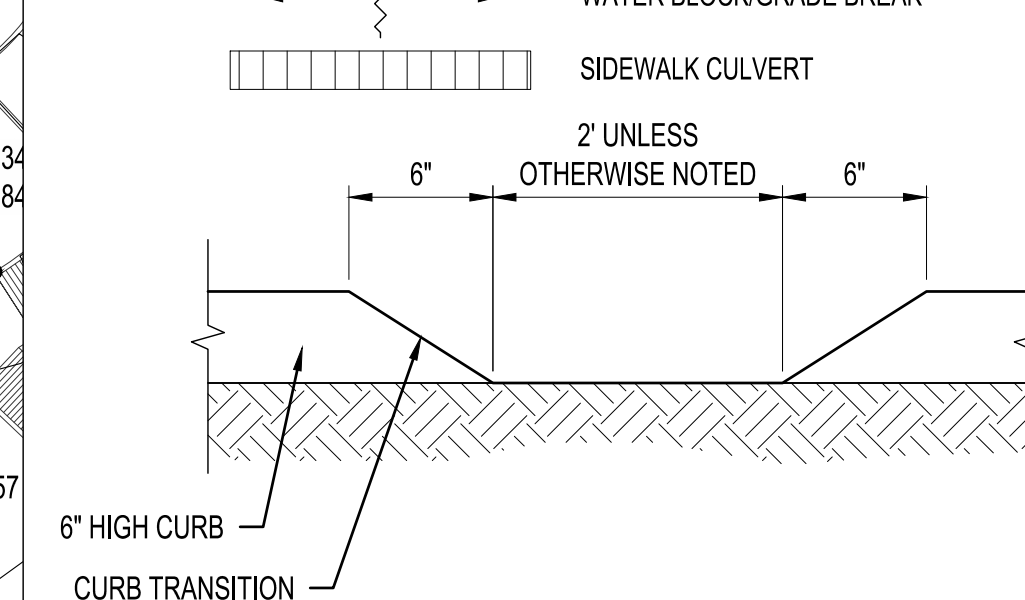
GRADING KEYNOTES

- INSTALL HDPE (N12WT, OR APPROVED EQUAL) STORM DRAIN PIPE. SEE PLAN FOR SIZE.
- INSTALL CONCRETE CURB OPENING PER DETAIL 1, SHEET C201.
- INSTALL CONCRETE ALLEY GUTTER PER COA STD DWG 2415B.
- INSTALL 2X3 NYLOPLAST CURB INLET OR APPROVED EQUAL.
- INSTALL 4" TYPE C STORM DRAIN MANHOLE PER COA STD DWG 2208.
- SEE ARCHITECTURAL PLANS FOR GARAGE ELEVATION AND SLOPE.
- INSTALL 24" SIDEWALK CULVERT PER COA STD DWG 2236.
- INSTALL LANDSCAPED SWALE.
- INSTALL 18" NYLOPLAST DOME GRATE INLET OR APPROVED EQUAL.
- INSTALL PREFABRICATED STORM DRAIN FITTING.
- INSTALL 1" WIDE RIBBON CHANNEL PER DETAIL 2, SHEET C202. COORDINATE WITH DOWNSPOUT LOCATION. DOWNSPOUT SHALL BE CENTERED IN RIBBON CHANNEL.
- INSTALL ADS STORMTECH SUBSURFACE RETENTION SYSTEM. REQUIRED VOLUME OF APPROXIMATELY 6,444.5 CF. SEE DETAIL SHEETS C205 AND C206.
- CAP PROPOSED STORM DRAIN LINE.
- FUTURE STORM DRAIN.
- INSTALL ADS STORMTECH SUBSURFACE RETENTION SYSTEM. REQUIRED VOLUME OF APPROXIMATELY 5,609 CF. SEE DETAIL SHEETS C207 AND C208.
- INSTALL ROOF DRAIN CONNECTION BELOW GRADE. SEE SHEET C206.
- INSTALL STORM DRAIN TO WATER FEATURE DRAINAGE OUTFALL.
- INSTALL 30" NYLOPLAST DOME GRATE INLET OR APPROVED EQUAL.
- INSTALL 8" NYLOPLAST DOME GRATE INLET OR APPROVED EQUAL.
- SEE ARCHITECTURAL PLANS FOR CONTINUATION OF TRENCH DRAIN.
- TRENCH DRAIN. SEE ARCHITECTURAL PLANS FOR DETAILS.
- CONNECT TO EXISTING STORM DRAIN. SEE COA PUBLIC WORK ORDER 775784 FOR OFFSITE IMPROVEMENTS.

LEGEND

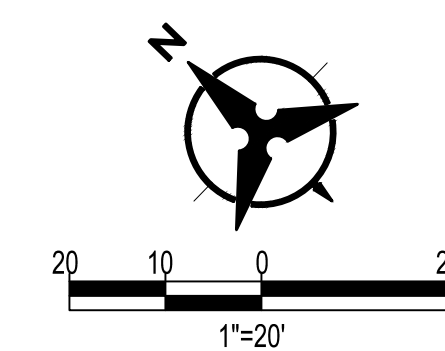
- PROPERTY LINE
- PROJECT LIMITS OF GRADING
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- DIRECTION OF FLOW
- WATER BLOCK/GRADE BREAK
- SIDEWALK CULVERT



1 CURB CUT

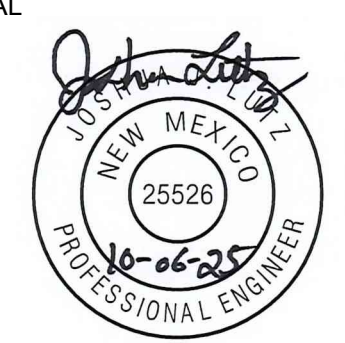
NTS



Bohannon & Huston
www.bhinc.com 800.877.5332

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SEAL



PROJECT

MESA DEL SOL-TRACT A
PHASE 1
(TRACT A) UNIVERSITY BLVD.
SE ALBUQUERQUE, NM 87106

PERMIT SET

REVISIONS

- 07/15/2025 COORDINATION
- 08/01/2025 COORDINATION

DRAWN BY

REVIEWED BY

DATE 03/24/2025

PROJECT NO. 22-0148.002

DRAWING NAME

GRADING PLAN

SHEET NO.

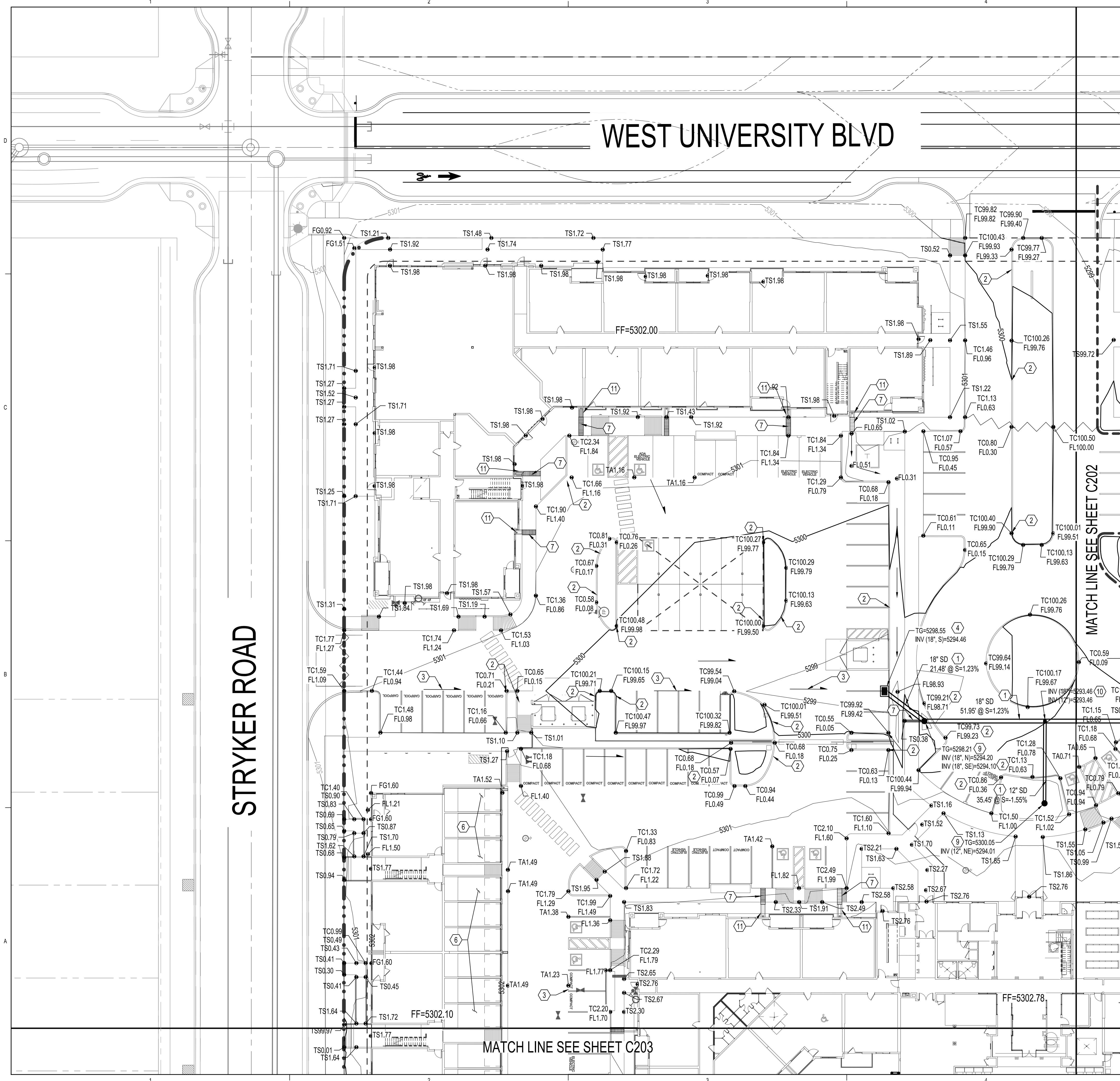
C201

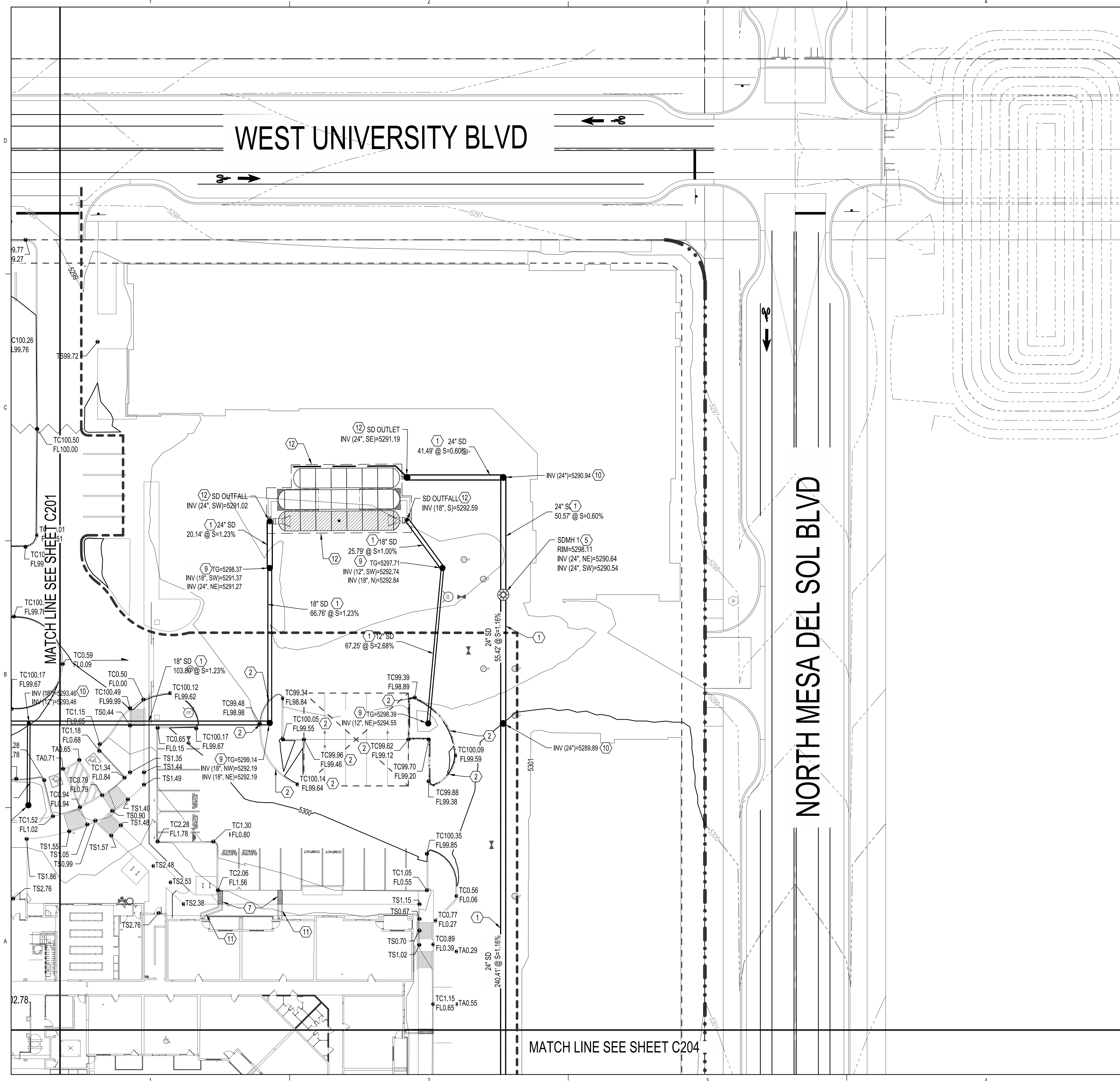
WEST UNIVERSITY BLVD

STRYKER ROAD

MATCH LINE SEE SHEET C202

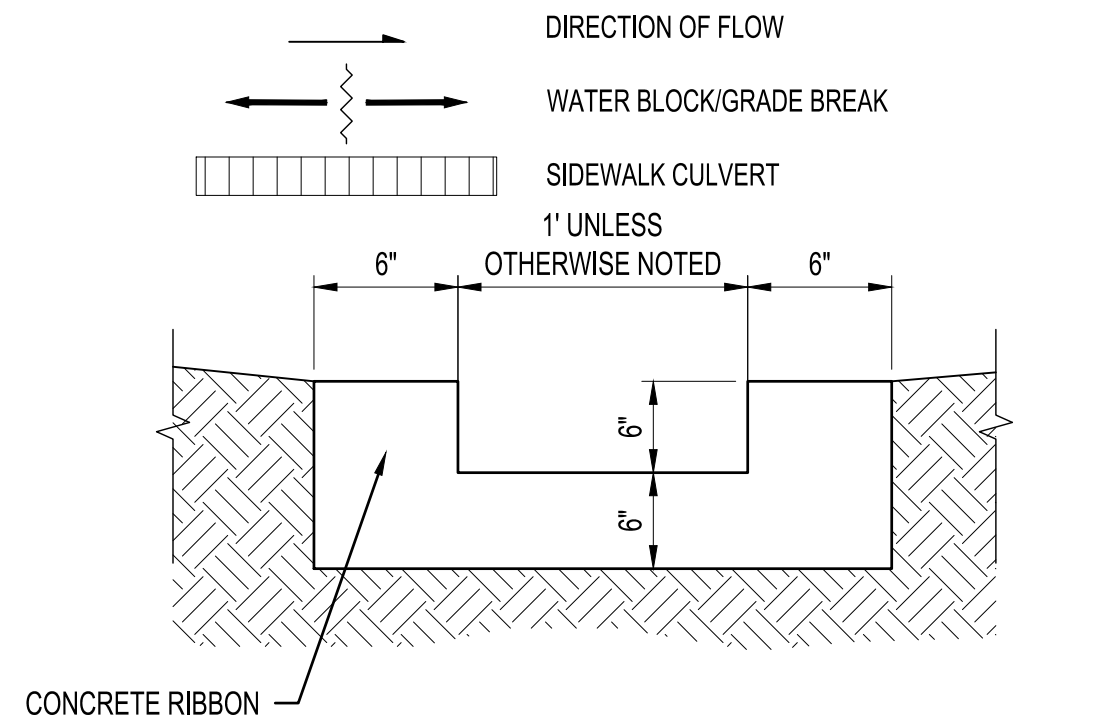
MATCH LINE SEE SHEET C203



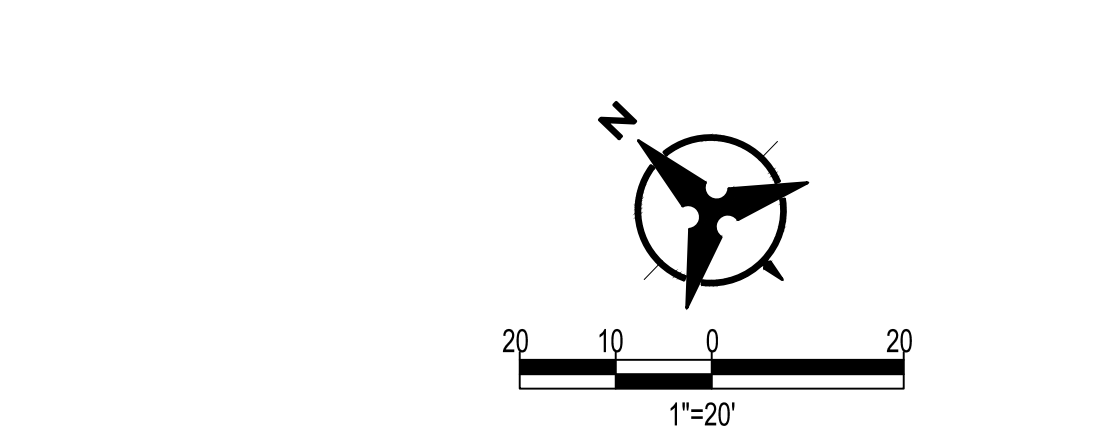


- ### GRADING KEYNOTES
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 12. INSTALL ADS STORMTECH SUBSURFACE RETENTION SYSTEM. REQUIRED VOLUME OF APPROXIMATELY 6,4445 CF. SEE DETAIL SHEETS C205 AND C206.
 13. CAP PROPOSED STORM DRAIN LINE.
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 15. INSTALL ADS STORMTECH SUBSURFACE RETENTION SYSTEM. REQUIRED VOLUME OF APPROXIMATELY 5,609 CF. SEE DETAIL SHEETS C207 AND C208.
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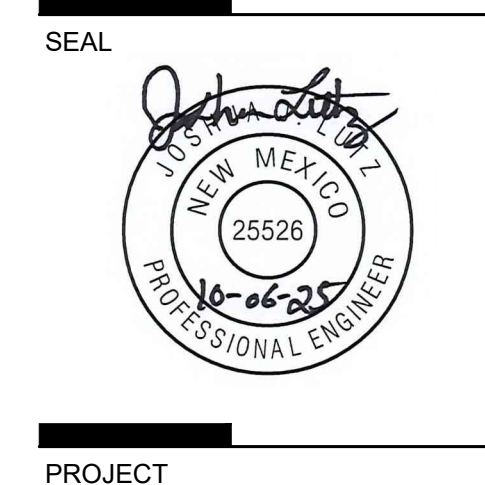
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 - DIRECTION OF FLOW
 - WATER BLOCK/GRADE BREAK
 - SIDEWALK CULVERT
 - 1" UNLESS OTHERWISE NOTED



2 CONCRETE RIBBON CHANNEL NTS



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MESA DEL SOL-TRACT A
PHASE 1
(Tract A) UNIVERSITY BLVD.
SE ALBUQUERQUE, NM 87106

PERMIT SET

REVISIONS

△	07/15/2025	COORDINATION
△	08/01/2025	COORDINATION
△		
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DRAWN BY _____
REVIEWED BY _____
DATE 03/24/2025
PROJECT NO. 22-0148.002

DRAWING NAME
GRADING PLAN

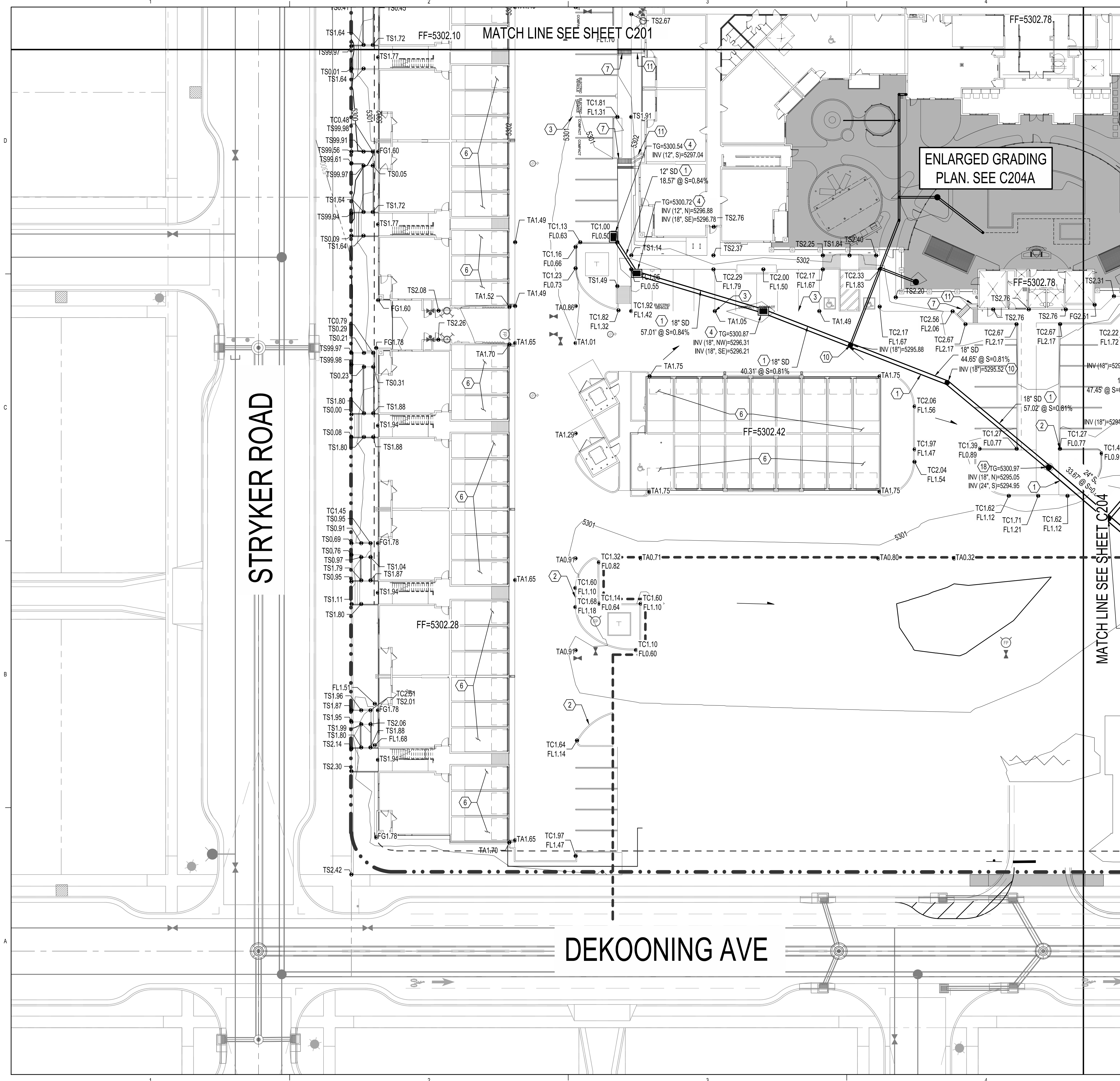
SHEET NO.
C202

GRADING KEYNOTES

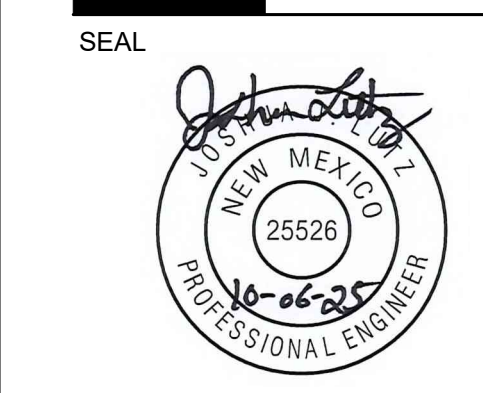
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DRAWING NAME
GRADING PLAN

SHEET NO.
C203



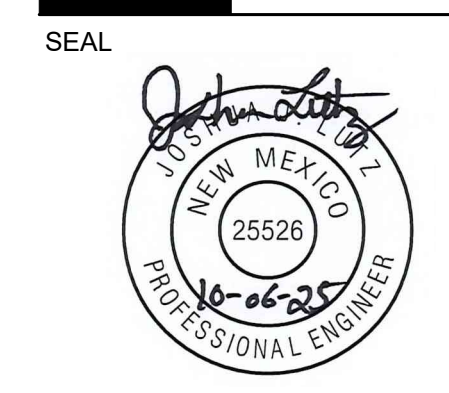
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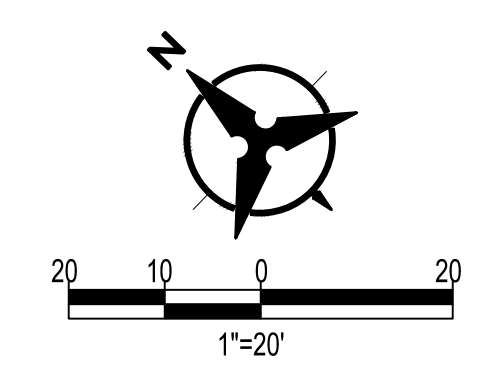
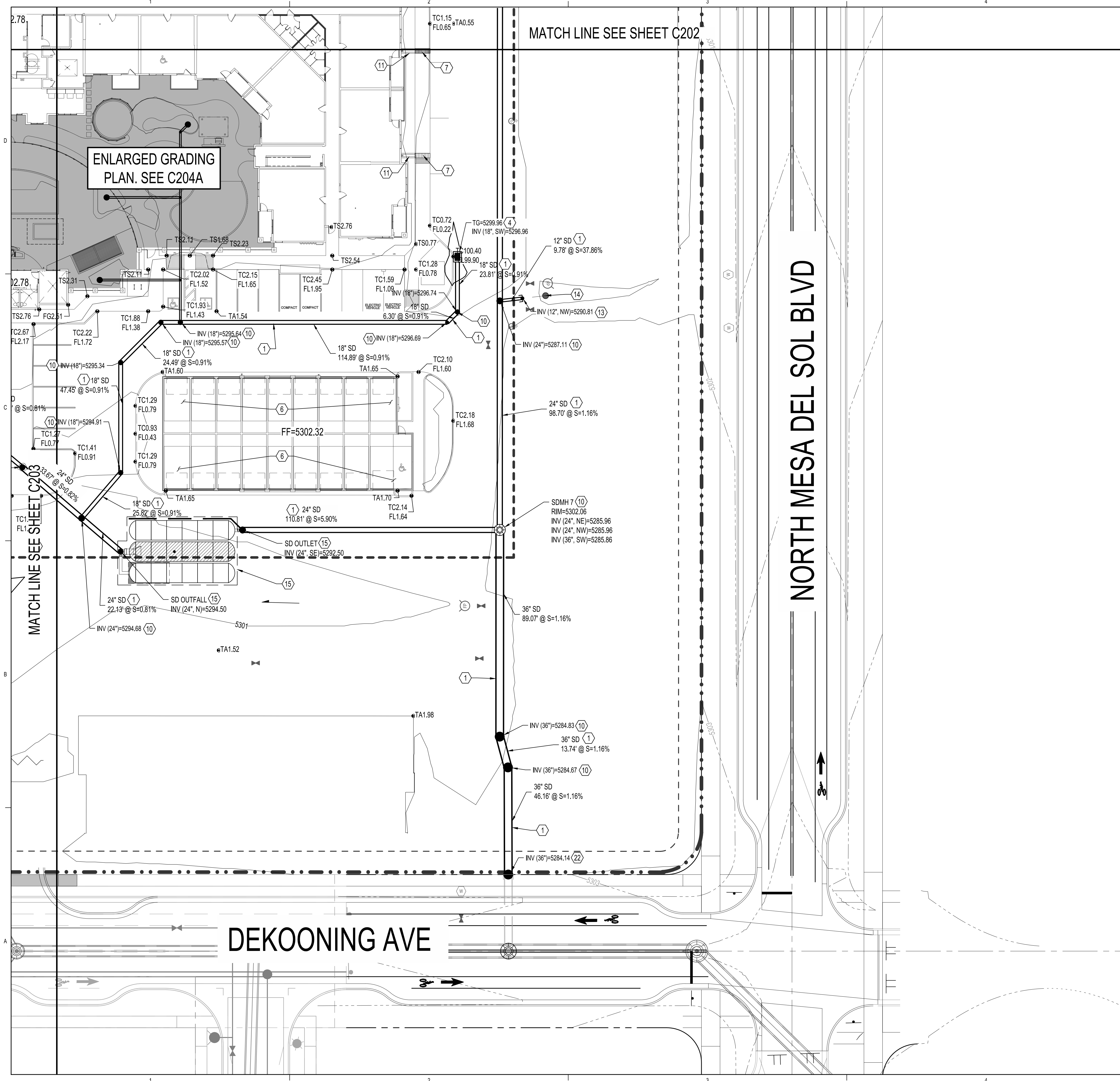
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SHEET NO.
C204



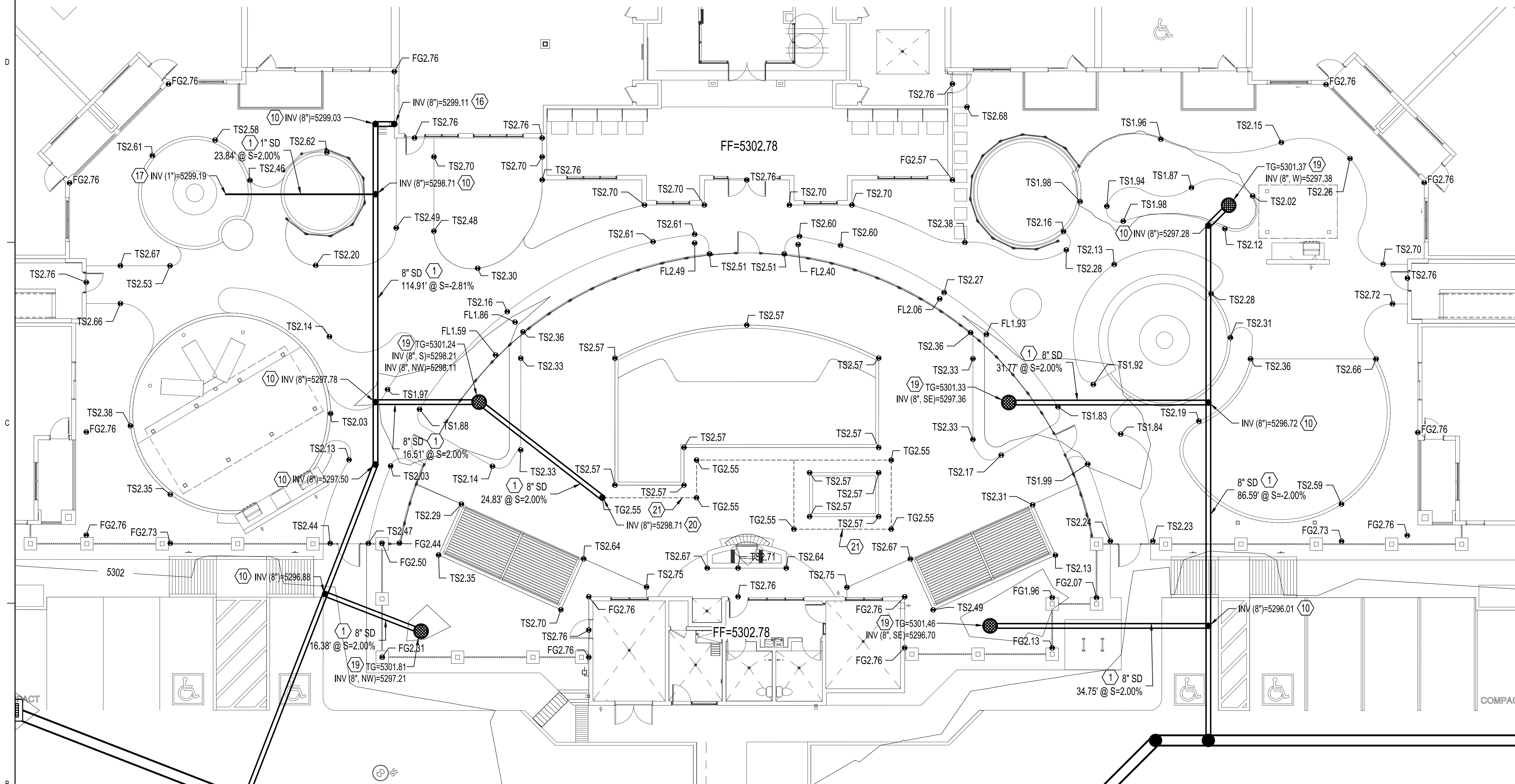
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GRADING KEYNOTES

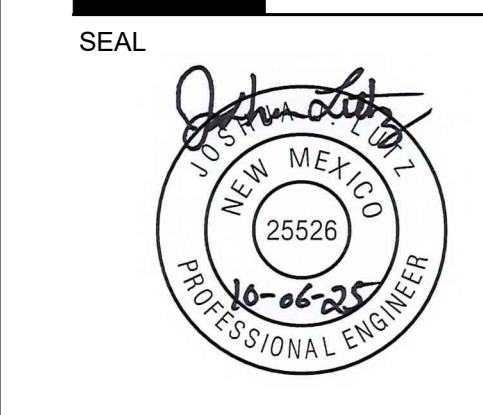
1. INSTALL HDPE (N12WT, OR APPROVED EQUAL) STORM DRAIN PIPE. SEE PLAN FOR SIZE.
2. INSTALL CONCRETE CURB OPENING PER DETAIL 1, SHEET C201.
3. INSTALL CONCRETE ALLEY GUTTER PER COA STD DWG 2415B.
4. INSTALL 2X3 NYLOPLAST CURB INLET OR APPROVED EQUAL.
5. INSTALL 4" TYPE C STORM DRAIN MANHOLE PER COA STD DWG 2208.
6. SEE ARCHITECTURAL PLANS FOR GARAGE ELEVATION AND SLOPE.
7. INSTALL 24" SIDEWALK CULVERT PER COA STD DWG 2236.
8. INSTALL LANDSCAPED SWALE.
9. INSTALL 18" NYLOPLAST DOME GRATE INLET OR APPROVED EQUAL.
10. INSTALL PREFABRICATED STORM DRAIN FITTING.
11. INSTALL 1" WIDE RIBBON CHANNEL PER DETAIL 2, SHEET C202. COORDINATE WITH DOWNSPOUT LOCATION. DOWNSPOUT SHALL BE CENTERED IN RIBBON CHANNEL.
12. INSTALL ADS STORMTECH SUBSURFACE RETENTION SYSTEM. REQUIRED VOLUME OF APPROXIMATELY 6,4445 CF. SEE DETAIL SHEETS C205 AND C206.
13. CAP PROPOSED STORM DRAIN LINE.
14. FUTURE STORM DRAIN.
15. INSTALL ADS STORMTECH SUBSURFACE RETENTION SYSTEM. REQUIRED VOLUME OF APPROXIMATELY 5,609 CF. SEE DETAIL SHEETS C207 AND C208.
16. INSTALL ROOF DRAIN CONNECTION BELOW GRADE. SEE SHEET C206.
17. INSTALL STORM DRAIN TO WATER FEATURE DRAINAGE OUTFALL.
18. INSTALL 30" NYLOPLAST DOME GRATE INLET OR APPROVED EQUAL.
19. INSTALL 8" NYLOPLAST DOME GRATE INLET OR APPROVED EQUAL.
20. SEE ARCHITECTURAL PLANS FOR CONTINUATION OF TRENCH DRAIN.
21. TRENCH DRAIN. SEE ARCHITECTURAL PLANS FOR DETAILS.
22. CONNECT TO EXISTING STORM DRAIN. SEE COA PUBLIC WORK ORDER 775784 FOR OFFSITE IMPROVEMENTS.

LEGEND

- PROPERTY LINE
- PROJECT LIMITS OF GRADING
- - - PHASE MATCHLINE
- - - -4925- EXISTING INDEX CONTOUR
- - - -4924- EXISTING INTERMEDIATE CONTOUR
- XX.XX EXISTING GROUND SPOT ELEVATION
- 4925- PROPOSED INDEX CONTOUR
- 4924- PROPOSED INTERMEDIATE CONTOUR
- XX.XX PROPOSED GRADE SPOT ELEVATION
- FG=FINISHED GRADE
- FL=FLOW LINE
- TA=TOP OF ASPHALT
- TC=TOP OF CURB
- TS=TOP OF SIDEWALK
- DIRECTION OF FLOW
- ↔ WATER BLOCK/GRADE BREAK
- ▬ SIDEWALK CULVERT



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MESA DEL SOL-TRACT A
 PHASE 1
 (TRACT A) UNIVERSITY BLVD.
 SE ALBUQUERQUE, NM 87106

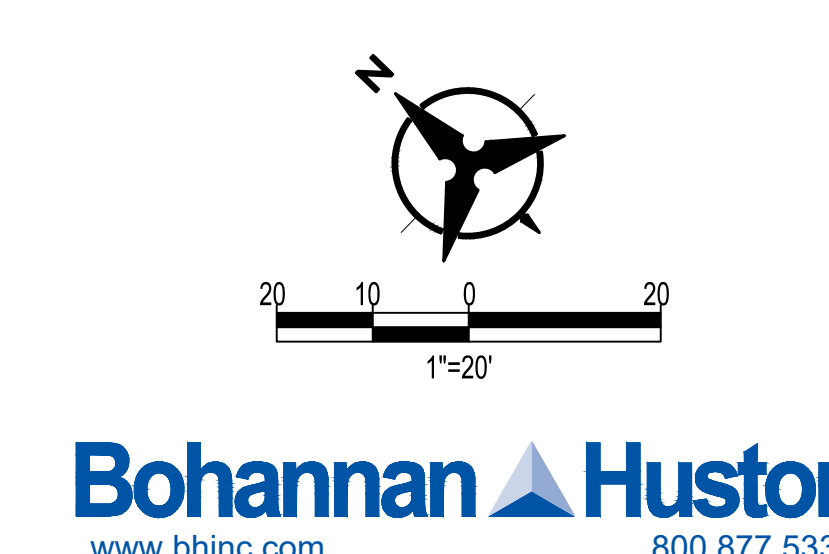
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REVISIONS	
△	07/15/2025 COORDINATION
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DRAWN BY _____
 REVIEWED BY _____
 DATE 03/24/2025
 PROJECT NO. 22-0148.002

DRAWING NAME
GRADING PLAN

SHEET NO.
C204A



Bohannon & Huston
 www.bhinc.com 800.877.5332

PROJECT INFORMATION	
ENGINEERED PRODUCT MANAGER	
ADS SALES REP	
PROJECT NO.	



WOODBURY APARTMENTS 6,445 MIN CFT STORAGE

ALBUQUERQUE, NM, USA

MC-7200 STORMTECH CHAMBER SPECIFICATIONS

- CHAMBERS SHALL BE STORMTECH MC-7200.
- CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE COPOLYMERS.
- CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 60x101.
- CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORTS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
- THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
- CHAMBERS SHALL BE DESIGNED, TESTED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". LOAD CONFIGURATIONS SHALL INCLUDE: 1) INSTANTANEOUS (<1 MIN) AASHTO DESIGN TRUCK LIVE LOAD ON MINIMUM COVER 2) MAXIMUM PERMANENT (75-YR) COVER LOAD AND 3) ALLOWABLE COVER WITH PARKED (1-WEEK) AASHTO DESIGN TRUCK.
- REQUIREMENTS FOR HANDLING AND INSTALLATION:
 - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
 - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 3".
 - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 450 LBS/FT³, THE ABC IS DEFINED IN SECTION 6.2.8 OF ASTM F2418, AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.
- ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. UPON REQUEST BY THE SITE DESIGN ENGINEER OR OWNER, THE CHAMBER MANUFACTURER SHALL SUBMIT A STRUCTURAL EVALUATION FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE AS FOLLOWS:
 - THE STRUCTURAL EVALUATION SHALL BE SIGNED BY A REGISTERED PROFESSIONAL ENGINEER.
 - THE STRUCTURAL EVALUATION SHALL DEMONSTRATE THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.5 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY SECTIONS 3 AND 12.12 OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR THERMOPLASTIC PIPE.
 - THE TEST DERIVED CREEP MODULUS AS SPECIFIED IN ASTM F2418 SHALL BE USED FOR PERMANENT DEAD LOAD DESIGN EXCEPT THAT IT SHALL BE THE 75-YEAR MODULUS USED FOR DESIGN.
- CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.
- MANHOLE SIZE TO BE DETERMINED BY SITE DESIGN ENGINEER. SEE TECH NOTE #6.32 FOR MANHOLE SIZING DUE TO THE ADAPTATION OF THIS CHAMBER SYSTEM TO SPECIFIC SITE AND DESIGN CONSTRAINTS, IT MAY BE NECESSARY TO CUT AND COUPLER ADDITIONAL PIPE TO STANDARD MANHOLE COMPONENTS IN THE FIELD.
- ADS DOES NOT DESIGN OR PROVIDE MEMBRANE LINER SYSTEMS. TO MINIMIZE THE LEAKAGE POTENTIAL OF LINER SYSTEMS, THE MEMBRANE LINER SYSTEM SHOULD BE DESIGNED BY A KNOWLEDGEABLE GEOTECHNICAL PROFESSIONAL AND INSTALLED BY A QUALIFIED CONTRACTOR.

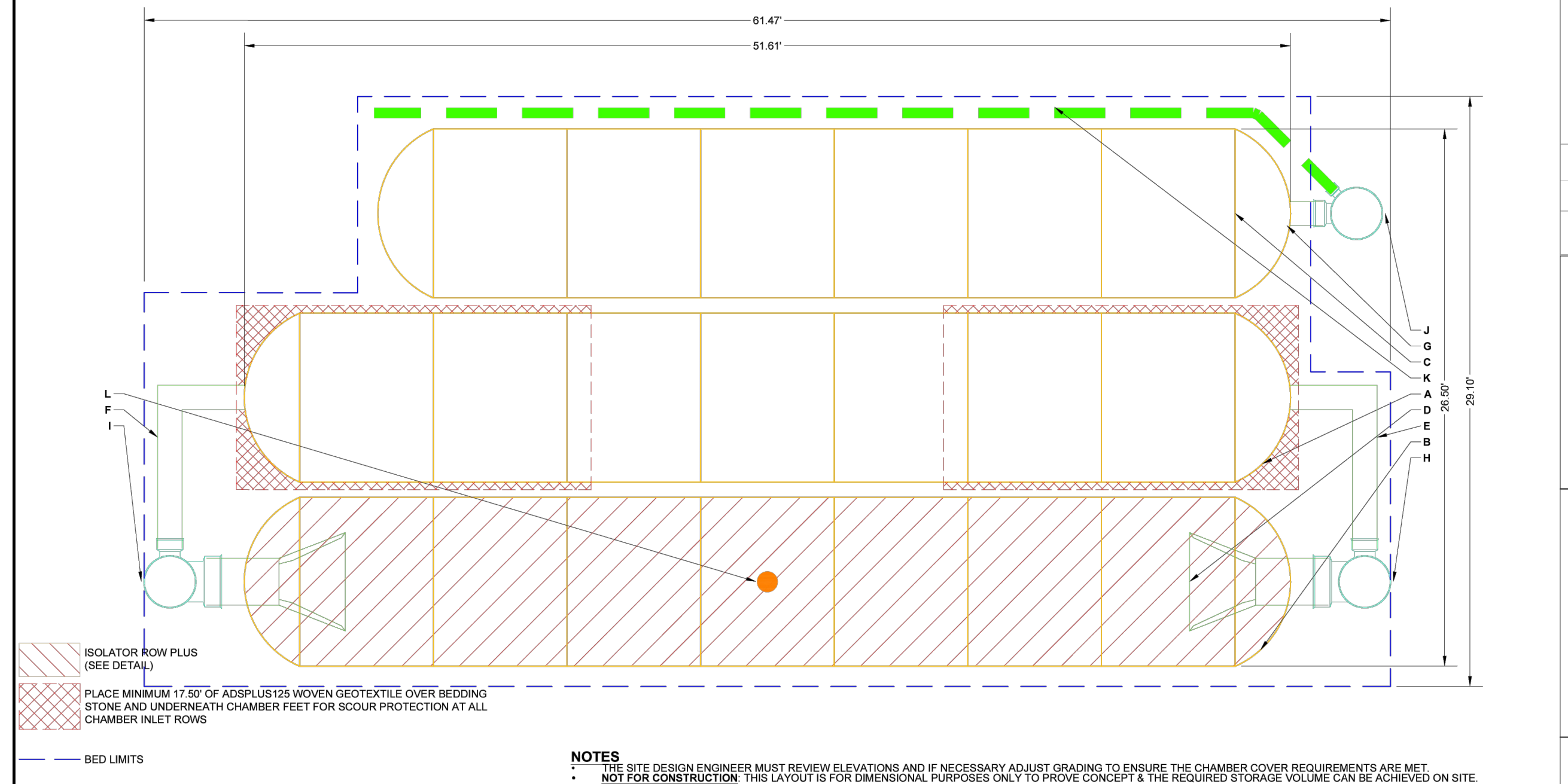
IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF MC-7200 CHAMBER SYSTEM

- STORMTECH MC-7200 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
- STORMTECH MC-7200 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH MC-7200 CONSTRUCTION GUIDE".
- CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR EXCAVATOR SITUATED OVER THE CHAMBERS. STORMTECH RECOMMENDS BACKFILL METHODS:
 - STONESHOOTER LOCATED OFF THE CHAMBER BED.
 - BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
 - BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
- THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
- JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
- MAINTAIN MINIMUM 9" (230 mm) SPACING BETWEEN THE CHAMBER ROWS.
- INLET AND OUTLET MANIFOLDS MUST BE INSERTED A MINIMUM OF 12" (300 mm) INTO CHAMBER END CAPS.
- EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE; AASHTO M43 #3, 357, 4, 497, 5, 56, OR 57.
- STONE SHALL BE BROUGHT UP EVENLY AROUND CHAMBERS SO AS NOT TO DISTORT THE CHAMBER SHAPE. STONE DEPTHS SHOULD NEVER DIFFER BY MORE THAN 12" (300 mm) BETWEEN ADJACENT CHAMBER ROWS.
- STONE MUST BE PLACED ON THE TOP CENTER OF THE CHAMBER TO ANCHOR THE CHAMBERS IN PLACE AND PRESERVE ROW SPACING.
- THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIAL BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.
- ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

NOTES FOR CONSTRUCTION EQUIPMENT

- STORMTECH MC-7200 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH MC-7200 CONSTRUCTION GUIDE".
- THE USE OF EQUIPMENT OVER MC-7200 CHAMBERS IS LIMITED:
 - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
 - NO RUBBER TIED LOADERS, DUMP TRUCK, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH MC-350/MC-7200 CONSTRUCTION GUIDE".
 - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH MC-7200 CONSTRUCTION GUIDE".
- FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING. USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY USING THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.
- CONTACT STORMTECH AT 1-800-821-6710 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.

PROPOSED LAYOUT	CONCEPTUAL ELEVATIONS:	PART TYPE	ITEM ON LAYOUT	DESCRIPTION	INVERT	MAX FLOW
20 STORMTECH MC-7200 CHAMBERS	MINIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED)				12.75	
6 STORMTECH MC-7200 END CAPS	MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC)				8.25	
12 STONE ABOVE (A)	MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC)				7.75	
9 STONE BELOW (B)	MINIMUM ALLOWABLE GRADE (TOP OF RIGID CONC RETE PAVEMENT)				7.25	
40 STONE VOIDS	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT)				7.25	
6664 INSTALLED SYSTEM VOLUME (C)	TOP OF STONE				6.75	
1634 COVER STONE INCLUDED	TOP OF MC-7200 CHAMBER				5.75	
1634 SYSTEM AREA (SF)	12" x 12" TOP MANHOLE INVERT				3.75	
1634 SYSTEM PERIMETER (FT)	24" SOLATOR ROW PLUS INVERT				0.8	
	24" SOLATOR ROW PLUS INVERT				0.8	
	12" BOTTOM PARTIAL CUT END CAP PART # MC7200EPP12B / TYP OF ALL 12" TOP CONNECTIONS	A			35.69'	
	12" BOTTOM PARTIAL CUT END CAP PART # MC7200EPP24B / TYP OF ALL 24" BOTTOM CONNECTIONS AND ISOLATOR PLUS ROWS	B			2.28'	
	12" BOTTOM PARTIAL CUT END CAP PART # MC7200EPP12B / TYP OF ALL 12" BOTTOM CONNECTIONS	C			1.55'	
	INSTALL FLAMP ON 24" ACCESS PIPE PART # MCFLAMP (TYP 2 PLACES)	D				
	12" x 12" TOP MANHOLE ADS N-12	E			35.69'	
	12" x 12" TOP MANHOLE ADS N-12	F			35.69'	
	24" SOLATOR ROW PLUS INVERT	G			1.55'	
	12" BOTTOM CONNECTION	H				
	0.8" NYLOPLAST INLET W/ ISO (BASE STONE ROW)	I				
	0.8" NYLOPLAST INLET W/ ISO (PLUS ROW)	J			2.5 CFS IN	
	NYLOPLAST (OUTLET)	K			2.0 CFS OUT	
	UNDERDRAIN	L				
	INSPECTION PORT					



WOODBURY APARTMENTS 6,445 MIN CFT STORAGE

DATE: 03/24/2025
DRAWN: BDO
ALBUQUERQUE, NM, USA

StormTech Chamber System

4640 TRILEMAN BLVD
ALBUQUERQUE, NM 87110
1-800-821-6710

SHEET 2 OF 6

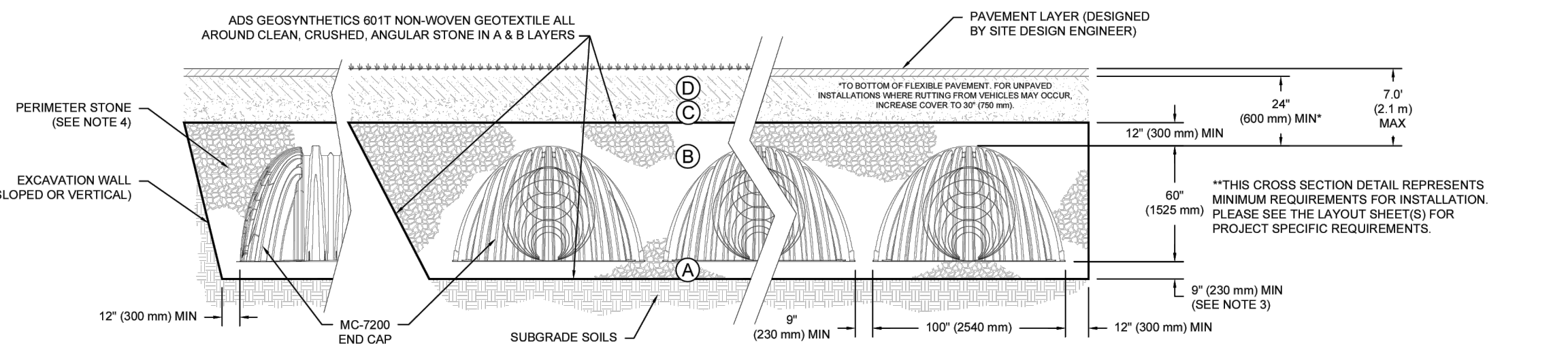
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FOR INFORMATION ONLY, REFER TO MANUFACTURER DESIGN

ACCEPTABLE FILL MATERIALS: STORMTECH MC-7200 CHAMBER SYSTEMS

MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER.	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 24" (600 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M145 ¹ A-1, A-2.4, A-3 OR AASHTO M43 ¹ 3, 357, 4, 497, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 24" (600 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 12" (300 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 90% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS.
B EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE ²	AASHTO M43 ¹ 3, 357, 4, 497, 5, 56, 57	NO COMPACTION REQUIRED.
A FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE ²	AASHTO M43 ¹ 3, 357, 4, 497, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. ^{2,3}

- PLEASE NOTE:
- THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
 - STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 9" (230 mm) MAX LIFTS USING TWO FULL COVERSAGES WITH A VIBRATORY COMPACTOR. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
 - WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT.
 - CHAMBER LAYER 'C' IS PLACED. ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.
 - WHERE RECYCLED CONCRETE AGGREGATE IS USED IN LAYERS 'A' OR 'B' THE MATERIAL SHOULD ALSO MEET THE ACCEPTABILITY CRITERIA OUTLINED IN TECHNICAL NOTE 6.20 "RECYCLED CONCRETE STRUCTURAL BACKFILL".



- NOTES:**
- CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 60x101.
 - MC-7200 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
 - THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS. REFERENCE STORMTECH DESIGN MANUAL FOR BEARING CAPACITY GUIDANCE.
 - PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
 - REQUIREMENTS FOR HANDLING AND INSTALLATION:
 - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
 - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 3".
 - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 450 LBS/FT³, THE ABC IS DEFINED IN SECTION 6.2.8 OF ASTM F2418, AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

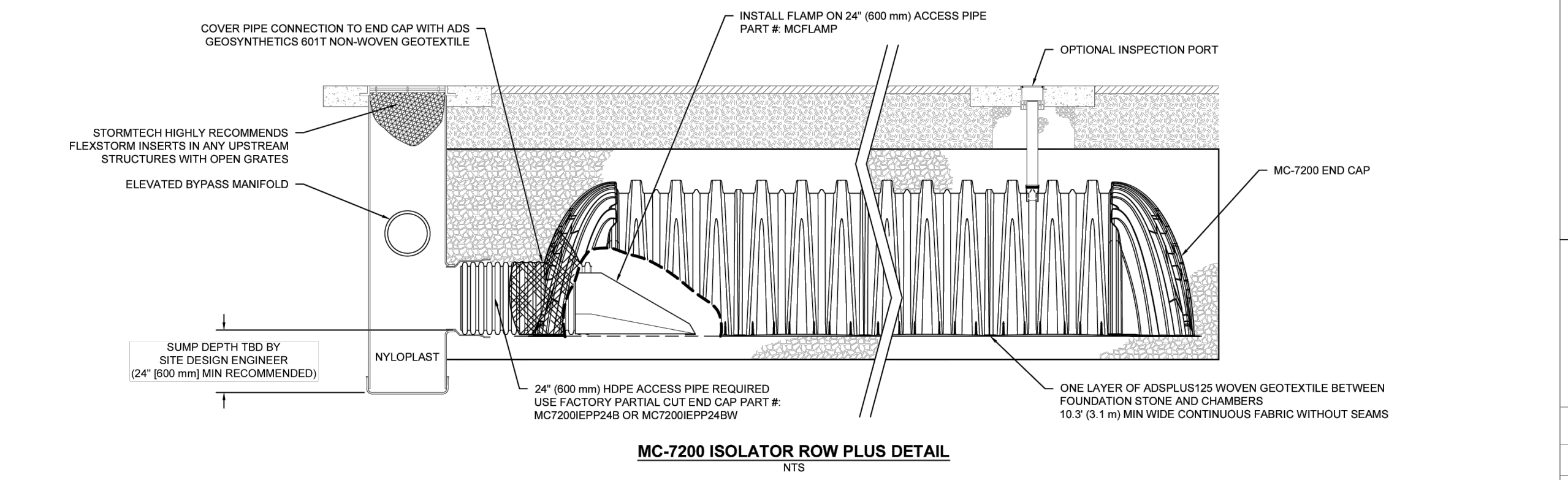
WOODBURY APARTMENTS 6,445 MIN CFT STORAGE

DATE: 03/24/2025
DRAWN: BDO
ALBUQUERQUE, NM, USA

StormTech Chamber System

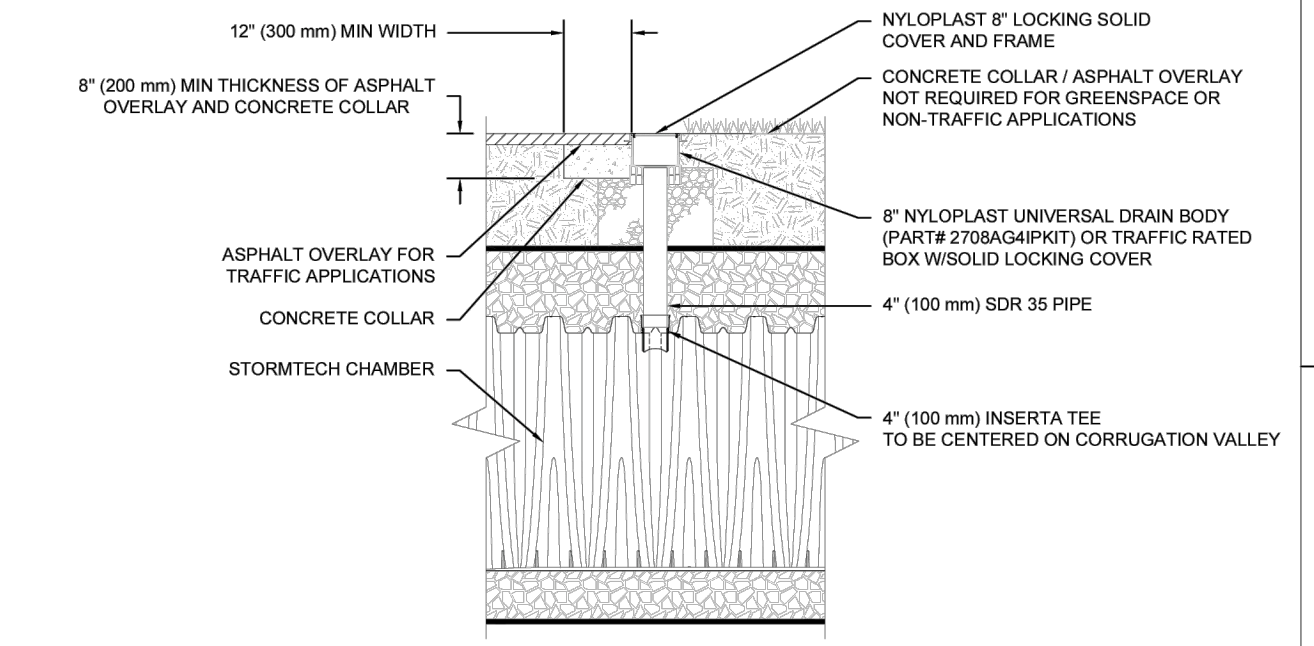
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1-800-821-6710

SHEET 3 OF 6



- INSPECTION & MAINTENANCE**
- STEP 1) INSPECT ISOLATOR ROW PLUS FOR SEDIMENT
- REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
 - REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
 - USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
 - LOWER A CAMERA INTO ISOLATOR ROW PLUS FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
 - IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- B. ALL ISOLATOR PLUS ROWS
- REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW PLUS
 - USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW PLUS THROUGH OUTLET PIPE
 - MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
 - FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
 - IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- STEP 2) CLEAN OUT ISOLATOR ROW PLUS USING THE JETVAC PROCESS
- A FRESH OVERLY CLEANING NOZZLE WITH REAR FACING SPREAD OF 45" (1.1 m) OR MORE IS PREFERRED
 - APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
 - VACUUM STRUCTURE 'SUMP' AS REQUIRED
- STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS, RECORD OBSERVATIONS AND ACTIONS
- STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

- NOTES**
- INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
 - CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.



WOODBURY APARTMENTS 6,445 MIN CFT STORAGE

DATE: 03/24/2025
DRAWN: BDO
ALBUQUERQUE, NM, USA

StormTech Chamber System

4640 TRILEMAN BLVD
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1-800-821-6710

SHEET 4 OF 6

MESA DEL SOL-TRACT A
PHASE 1
(Tract A) UNIVERSITY BLVD.
SE ALBUQUERQUE, NM 87106

PERMIT SET

REVISIONS

- 07/15/2025 COORDINATION
- 07/15/2025 1ST CITY COMMENTS

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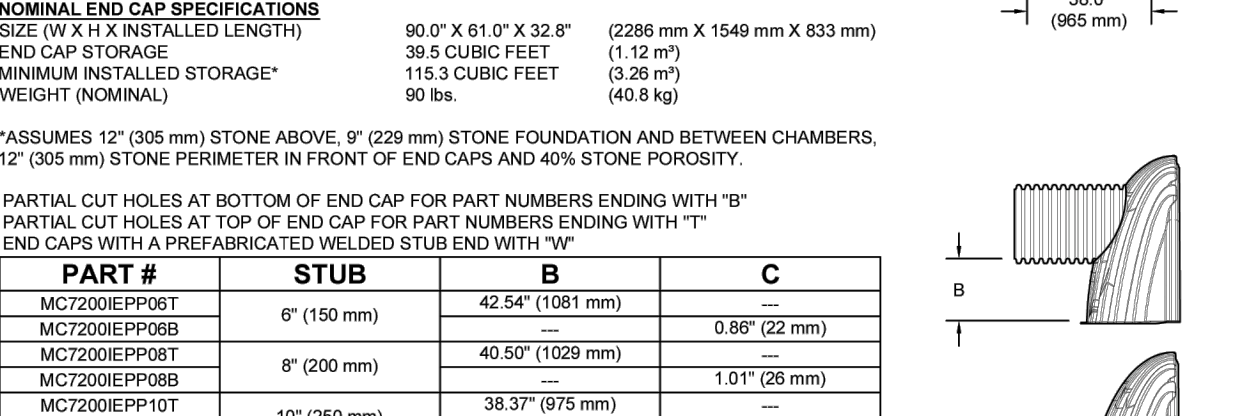
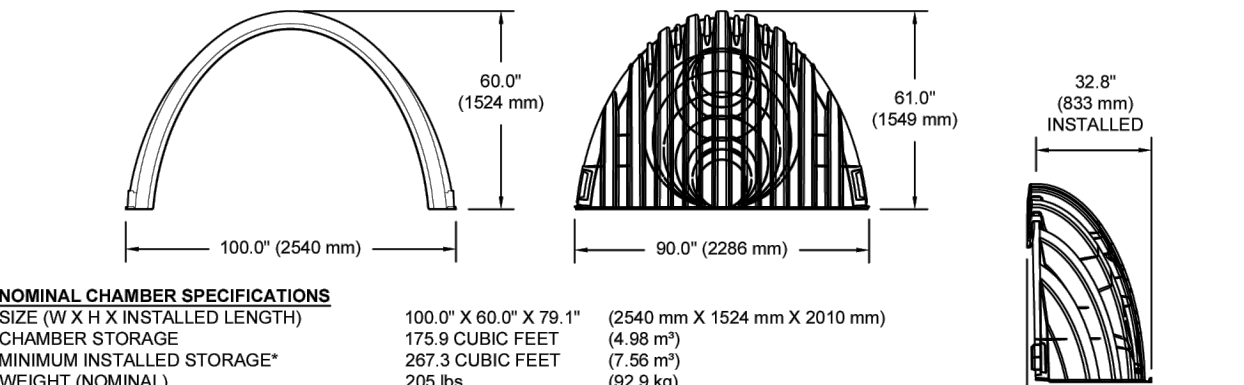
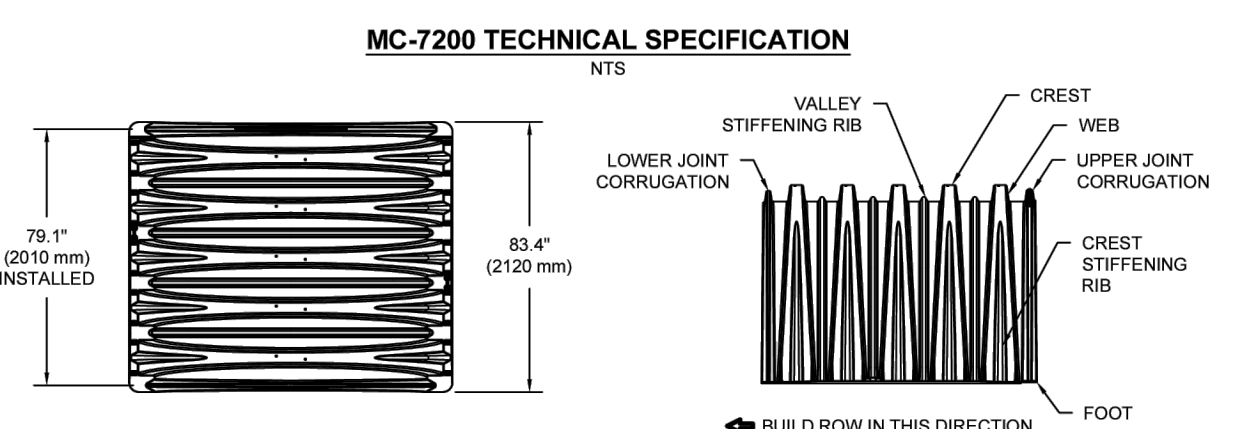
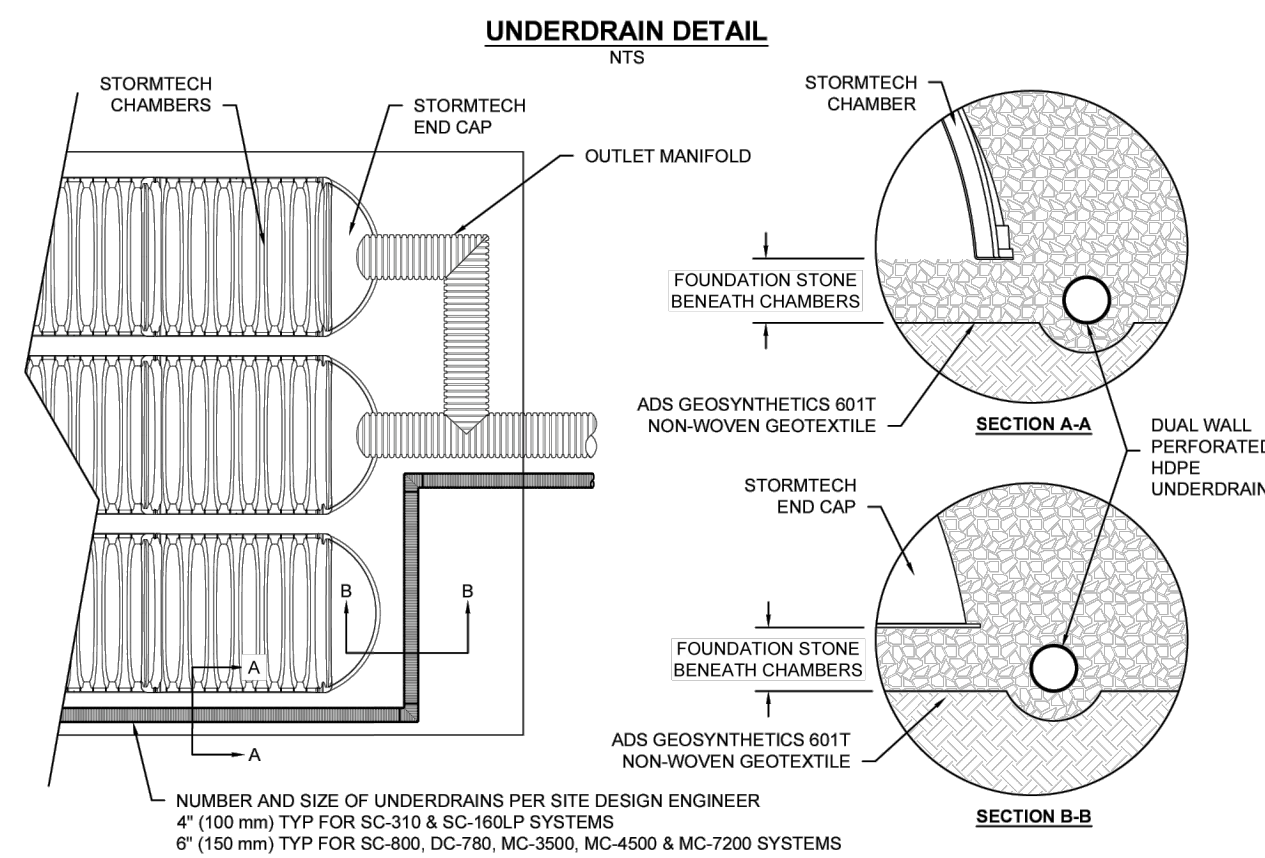
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DATE 03/24/2025

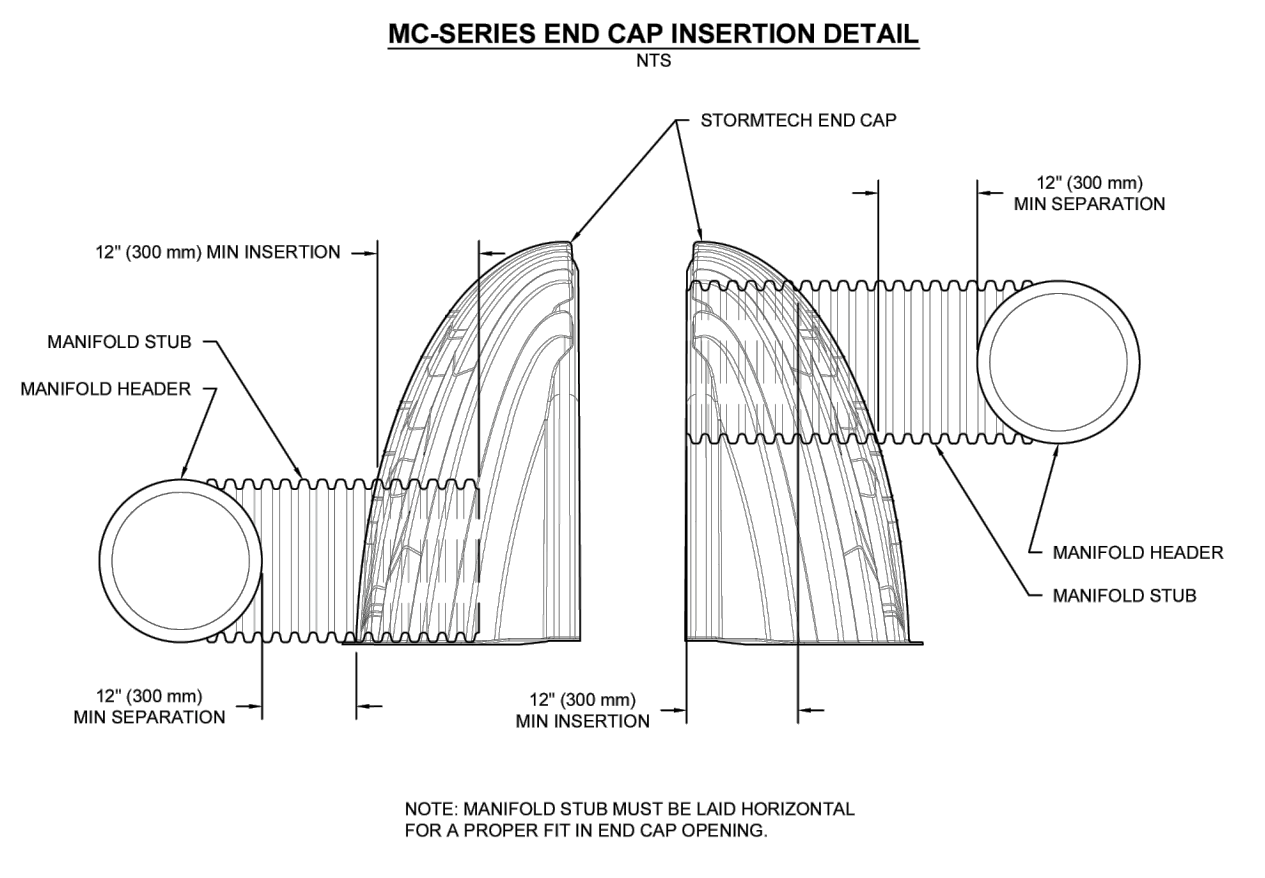
PROJECT NO. 22-0148.002

DRAWING NAME
GRADING DETAILS

SHEET NO.
C205



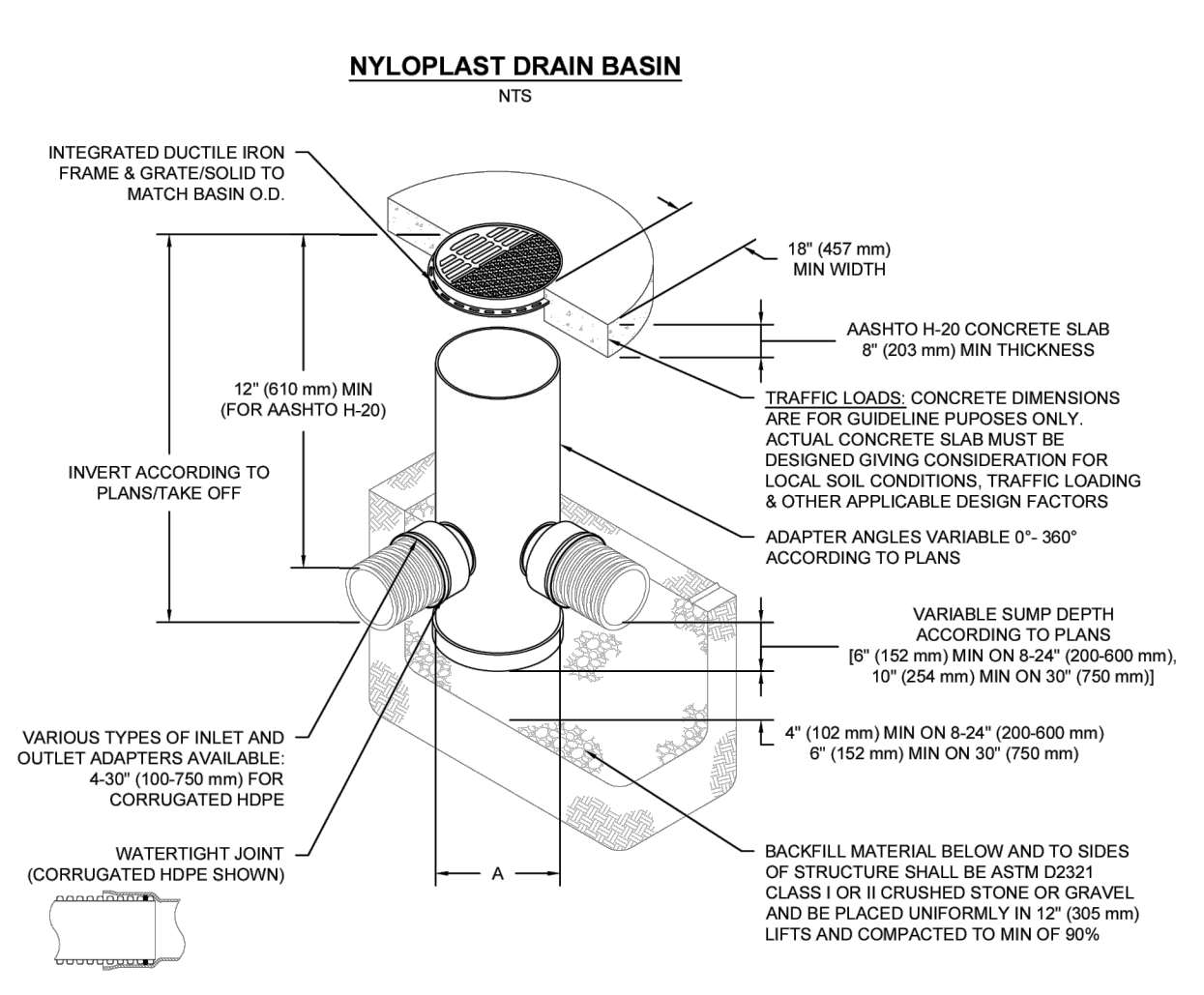
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MC7200EP18T	18\"/>		
MC7200EP24T	24\"/>		
MC7200EP30T	30\"/>		
MC7200EP36T	36\"/>		
MC7200EP42T	42\"/>		



WOODBURY APARTMENTS 6.445
MIN CFT STORAGE
ALBUQUERQUE, NM, USA
DATE: 03/24/2025
PROJECT #:
CHECKED: N/A
DRAWN BY:
DATE: 03/24/2025
PROJECT #:
CHECKED: N/A
DRAWN BY:

StormTech
Chamber System
4640 TRILBIAN BLVD
ALBUQUERQUE, NM 87105
1-800-733-7473

SHEET
5 OF 6



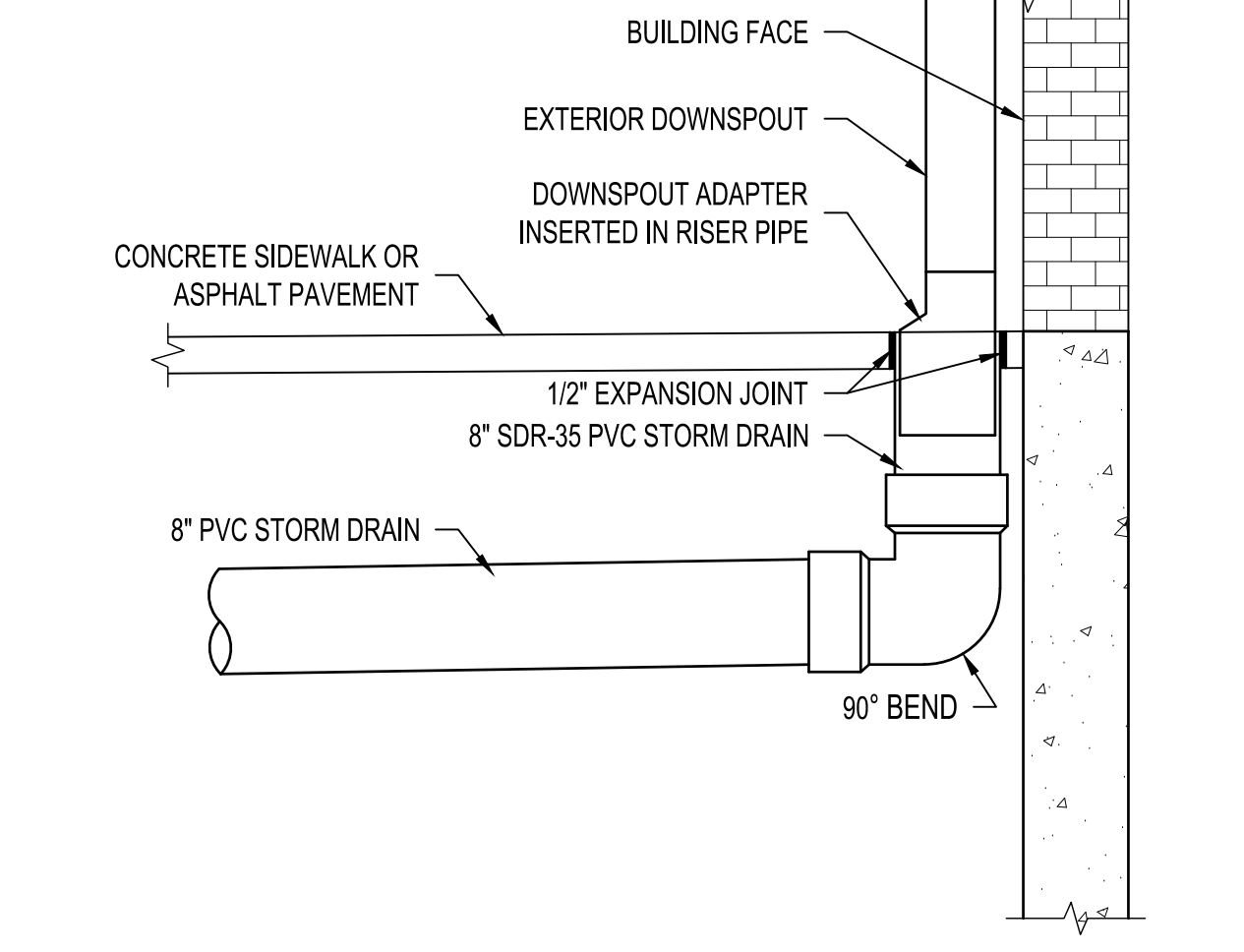
- NOTES
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A	PART #	GRATE/SOLID COVER OPTIONS
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WOODBURY APARTMENTS 6.445
MIN CFT STORAGE
ALBUQUERQUE, NM, USA
DATE: 03/24/2025
PROJECT #:
CHECKED: N/A
DRAWN BY:
DATE: 03/24/2025
PROJECT #:
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SHEET
6 OF 6



01 ROOF DRAIN CONNECTION NTS

WOODBURY APARTMENTS 6.445
MIN CFT STORAGE
ALBUQUERQUE, NM, USA
DATE: 03/24/2025
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SHEET
5 OF 6

WOODBURY APARTMENTS 6.445
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ALBUQUERQUE, NM, USA
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SHEET
6 OF 6

MESA DEL SOL-TRACT A
PHASE 1
(Tract A) UNIVERSITY BLVD.
SE ALBUQUERQUE, NM 87106

PERMIT SET

REVISIONS

- 07/15/2025 COORDINATION
- 07/15/2025 1ST CITY COMMENTS

DRAWN BY:
REVIEWED BY:
DATE: 03/24/2025
PROJECT NO. 22-0148.002

DRAWING NAME
GRADING DETAILS

SHEET NO.
C206

Dekker

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MESA DEL SOL-TRACT A
PHASE 1
(Tract A) UNIVERSITY BLVD.
SE ALBUQUERQUE, NM 87106

PERMIT SET

REVISIONS

- 07/15/2025 COORDINATION
- 07/15/2025 1ST CITY COMMENTS

DRAWN BY:
REVIEWED BY:
DATE: 03/24/2025
PROJECT NO. 22-0148.002

DRAWING NAME
GRADING DETAILS

SHEET NO.
C206

PROJECT INFORMATION	
ENGINEERED PRODUCT MANAGER	
ADS SALES REP	
PROJECT NO.	



WOODBURY APARTMENTS 5,609 MIN CFT STORAGE

ALBUQUERQUE, NM, USA

MC-7200 STORMTECH CHAMBER SPECIFICATIONS

- CHAMBERS SHALL BE STORMTECH MC-7200.
- CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE COPOLYMERS.
- CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 60x101.
- CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORTS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
- THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
- CHAMBERS SHALL BE DESIGNED, TESTED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". LOAD CONFIGURATIONS SHALL INCLUDE: 1) INSTANTANEOUS (<1 MIN) AASHTO DESIGN TRUCK LIVE LOAD ON MINIMUM COVER 2) MAXIMUM PERMANENT (75-YR) COVER LOAD AND 3) ALLOWABLE COVER WITH PARKED (1-WEEK) AASHTO DESIGN TRUCK.
- REQUIREMENTS FOR HANDLING AND INSTALLATION:
 - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
 - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 3".
 - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, THE ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 450 LBS/FT². THE ABC IS DEFINED IN SECTION 6.2.8 OF ASTM F2418. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.
- ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. UPON REQUEST BY THE SITE DESIGN ENGINEER OR OWNER, THE CHAMBER MANUFACTURER SHALL SUBMIT A STRUCTURAL EVALUATION FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE AS FOLLOWS:
 - THE STRUCTURAL EVALUATION SHALL BE SIGNED BY A REGISTERED PROFESSIONAL ENGINEER.
 - THE STRUCTURAL EVALUATION SHALL DEMONSTRATE THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.85 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY SECTIONS 3 AND 12.12 OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR THERMOPLASTIC PIPE.
 - THE TEST DERIVED CREEP MODULUS AS SPECIFIED IN ASTM F2418 SHALL BE USED FOR PERMANENT DEAD LOAD DESIGN EXCEPT THAT IT SHALL BE THE 75-YEAR MODULUS USED FOR DESIGN.
- CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.
- MANHOLE SIZE TO BE DETERMINED BY SITE DESIGN ENGINEER. SEE TECH NOTE #6.32 FOR MANHOLE SIZING GUIDANCE. DUE TO THE ADAPTATION OF THIS CHAMBER SYSTEM TO SPECIFIC SITE AND DESIGN CONSTRAINTS, IT MAY BE NECESSARY TO CUT AND COUPLE ADDITIONAL PIPE TO STANDARD MANHOLE COMPONENTS IN THE FIELD.
- ADS DOES NOT DESIGN OR PROVIDE MEMBRANE LINER SYSTEMS. TO MINIMIZE THE LEAKAGE POTENTIAL OF LINER SYSTEMS, THE MEMBRANE LINER SYSTEM SHOULD BE DESIGNED BY A KNOWLEDGEABLE GEOTECHNICAL PROFESSIONAL AND INSTALLED BY A QUALIFIED CONTRACTOR.

IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF MC-7200 CHAMBER SYSTEM

- STORMTECH MC-7200 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
- STORMTECH MC-7200 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH MC-7200 CONSTRUCTION GUIDE".
- CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR EXCAVATOR SITUATED OVER THE CHAMBERS. STORMTECH RECOMMENDS BACKFILL METHODS:
 - STONESHOOTER LOCATED OFF THE CHAMBER BED.
 - BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
 - BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
- THE FOUNDATION STONE SHALL BE LEVELLED AND COMPACTED PRIOR TO PLACING CHAMBERS.
- JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
- MAINTAIN MINIMUM 9" (230 mm) SPACING BETWEEN THE CHAMBER ROWS.
- INLET AND OUTLET MANIFOLDS MUST BE INSERTED A MINIMUM OF 12" (300 mm) INTO CHAMBER END CAPS.
- EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE; AASHTO M43 #3, #57, 4, 467, 5, 56, OR 97.
- STONE SHALL BE BROUGHT UP EVENLY AROUND CHAMBERS SO AS NOT TO DISTORT THE CHAMBER SHAPE. STONE DEPTHS SHOULD NEVER DIFFER BY MORE THAN 12" (300 mm) BETWEEN ADJACENT CHAMBER ROWS.
- STONE MUST BE PLACED ON THE TOP CENTER OF THE CHAMBER TO ANCHOR THE CHAMBERS IN PLACE AND PRESERVE ROW SPACING.
- THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIAL BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.
- ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

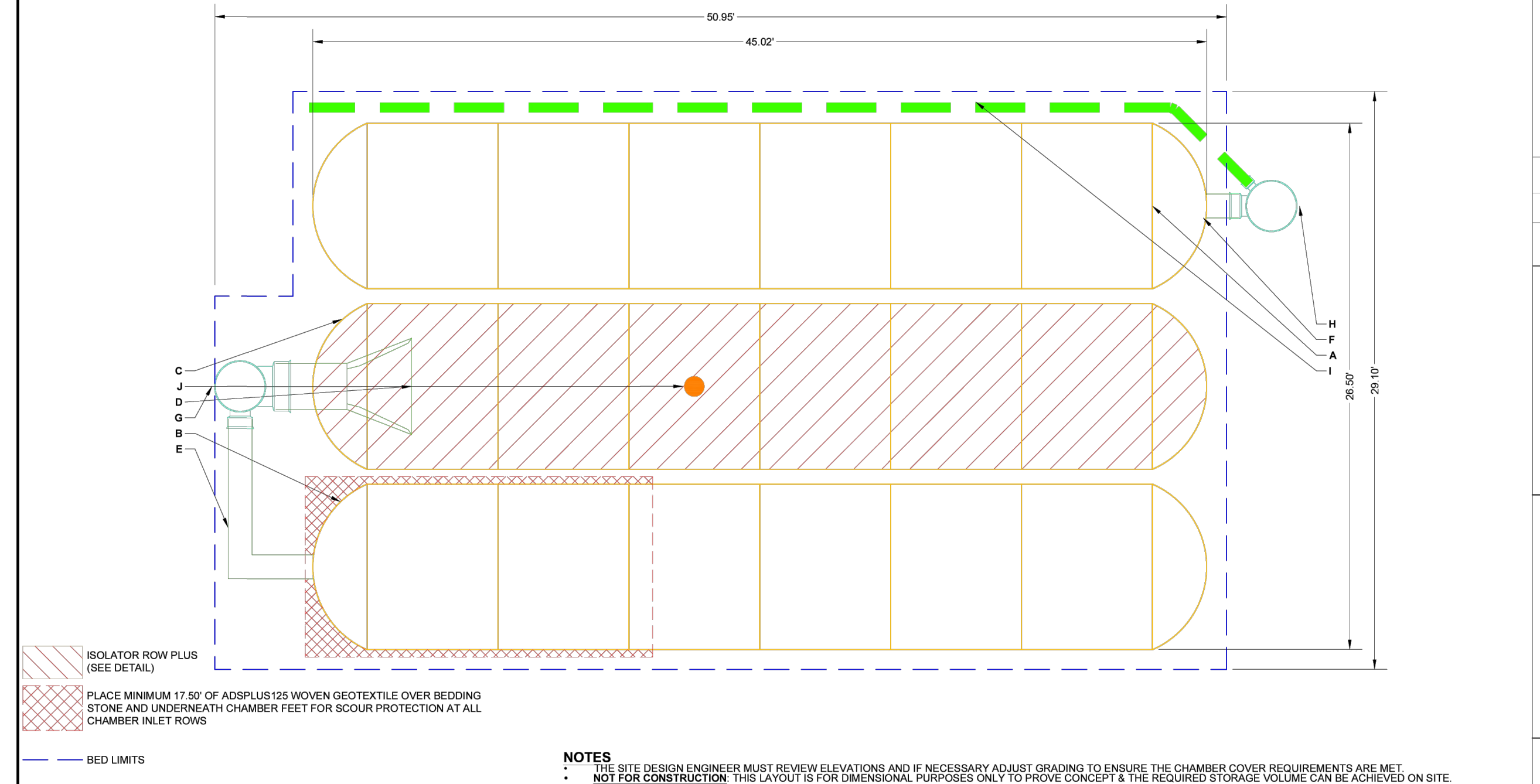
NOTES FOR CONSTRUCTION EQUIPMENT

- STORMTECH MC-7200 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH MC-7200 CONSTRUCTION GUIDE".
- THE USE OF EQUIPMENT OVER MC-7200 CHAMBERS IS LIMITED:
 - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
 - NO RUBBER-TIRED LOADERS, DUMP TRUCKS, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH MC-300/MC-7200 CONSTRUCTION GUIDE".
 - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH MC-7200 CONSTRUCTION GUIDE".
- FULL 36" (900 mm) OF STABILIZED COVER MATERIAL OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.

USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY USING THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.

CONTACT STORMTECH AT 1-800-821-6710 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.

PROPOSED LAYOUT	CONCEPTUAL ELEVATIONS:	PART TYPE	ITEM ON LAYOUT	DESCRIPTION	INVERT	MAX FLOW
18 STORMTECH MC-7200 CHAMBERS	MINIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED)				12.75'	
6 STORMTECH MC-7200 END CAPS	MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC)				8.00'	
12 STONE ABOVE (A)	MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC)				7.75'	
9 STONE BELOW (B)	MINIMUM ALLOWABLE GRADE (TOP OF REINFORCING CONCRETE PAVEMENT)				7.75'	
40 STONE VOLS	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT)				6.25'	
5636 INSTALLED SYSTEM VOLUME (C)	TOP OF STONE				5.75'	
(PERIMETER STONE INCLUDED)	TOP OF MC-7200 CHAMBER				5.75'	
(COVER STONE INCLUDED)	12" ISOLATOR ROW PLUS INVERT				0.00'	
1442 SYSTEM AREA (SF)	12" ISOLATOR ROW PLUS INVERT				0.00'	
190.1 SYSTEM PERIMETER (FT)	UNDERDRAIN INVERT				0.00'	
	UNDERDRAIN INVERT				0.00'	
	INSPECTION PORT				4"	



NOTES: THE SITE DESIGN ENGINEER MUST REVIEW ELEVATIONS AND IF NECESSARY ADJUST GRADING TO ENSURE THE CHAMBER COVER REQUIREMENTS ARE MET. NOT FOR CONSTRUCTION. THIS LAYOUT IS FOR DIMENSIONAL PURPOSES ONLY. TO PROVE CONCEPT & THE REQUIRED STORAGE VOLUME CAN BE ACHIEVED ON SITE.

WOODBURY APARTMENTS 5,609 MIN CFT STORAGE

ALBUQUERQUE, NM, USA

DATE: 03/24/2025

DRAWN BY: [Name]

CHECKED BY: [Name]

DESIGNED BY: [Name]

PROJECT NO. 22-0148.002

SHEET 2 OF 6

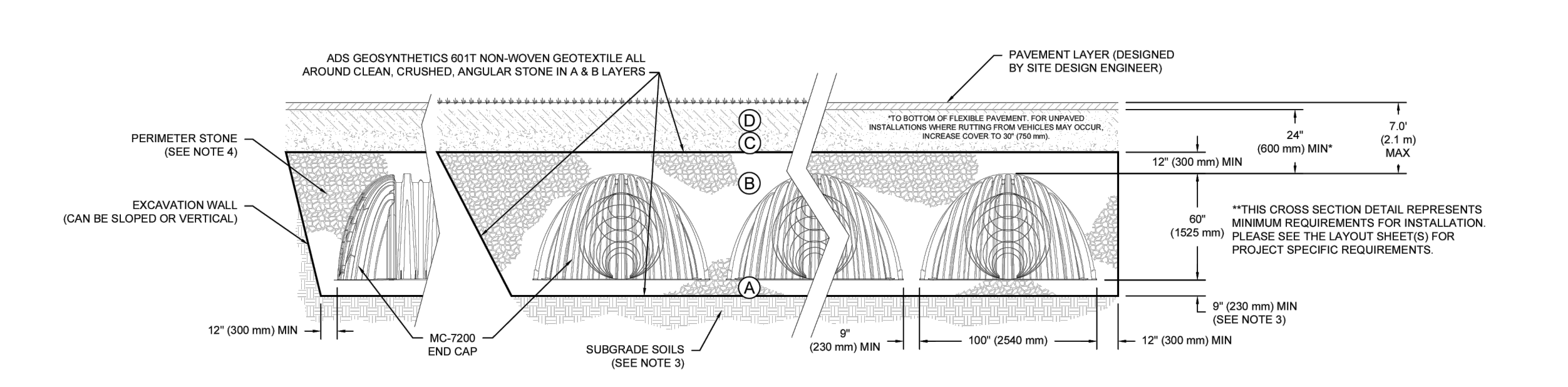


FOR INFORMATION ONLY, REFER TO MANUFACTURER DESIGN

ACCEPTABLE FILL MATERIALS: STORMTECH MC-7200 CHAMBER SYSTEMS

MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER.	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE (B LAYER) TO 24" (600 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M14E ¹ A-1, A-2.4, A-3 OR AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 24" (600 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 12" (300 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 90% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS.
B EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE (A LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE ²	AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
A FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE ²	AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. ^{2,3}

- PLEASE NOTE:
- THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
 - STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 9" (230 mm) MAX LIFTS USING TWO FULL COVERSAGES WITH A VIBRATORY COMPACTOR. FOR SPECIAL LOAD DESIGNS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION OPERATIONS. CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
 - ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.
 - WHERE RECYCLED CONCRETE AGGREGATE IS USED IN LAYERS 'A' OR 'B' THE MATERIAL SHOULD ALSO MEET THE ACCEPTABILITY CRITERIA OUTLINED IN TECHNICAL NOTE 6.20 "RECYCLED CONCRETE STRUCTURAL BACKFILL".



- ### NOTES:
- CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 60x101.
 - MC-7200 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
 - THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS. REFERENCE STORMTECH DESIGN MANUAL FOR BEARING CAPACITY GUIDANCE.
 - PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
 - REQUIREMENTS FOR HANDLING AND INSTALLATION:
 - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
 - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 3".
 - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, THE ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 450 LBS/FT². THE ABC IS DEFINED IN SECTION 6.2.8 OF ASTM F2418. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

WOODBURY APARTMENTS 5,609 MIN CFT STORAGE

ALBUQUERQUE, NM, USA

DATE: 03/24/2025

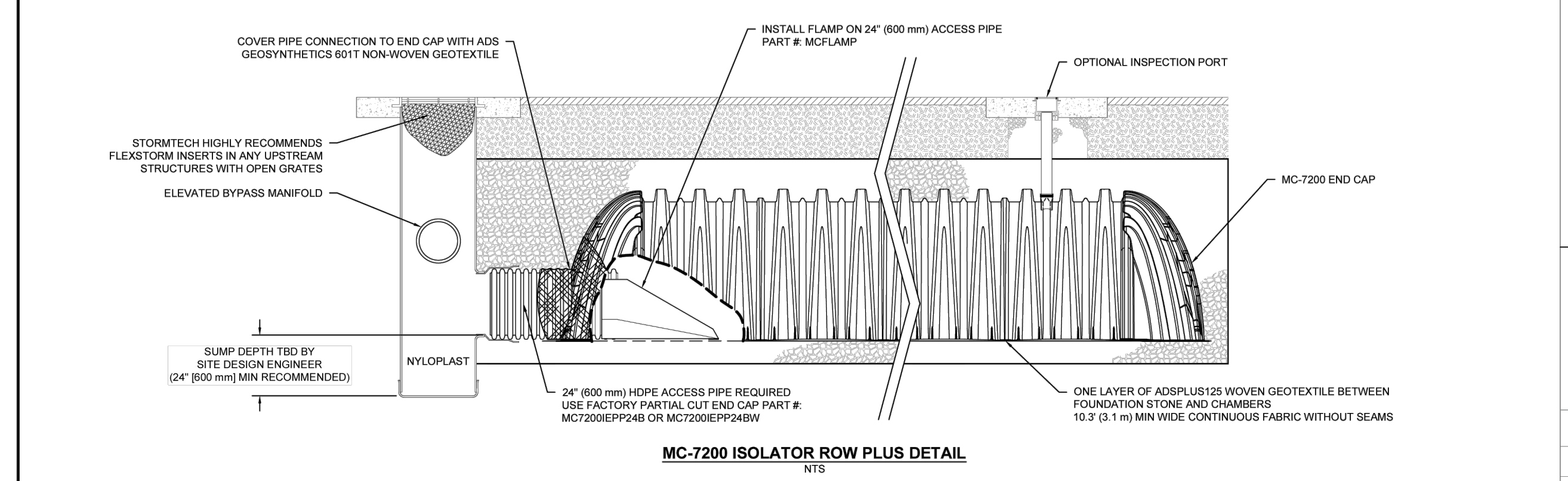
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DESIGNED BY: [Name]

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SHEET 3 OF 6



- ### INSPECTION & MAINTENANCE
- STEP 1) INSPECT ISOLATOR ROW PLUS FOR SEDIMENT
- REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
 - REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
 - USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
 - LOWER A CAMERA INTO ISOLATOR ROW PLUS FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
 - IF SEDIMENT IS AT OR ABOVE 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- B. ALL ISOLATOR PLUS ROWS
- REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW PLUS
 - USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW PLUS THROUGH OUTLET PIPE
 - MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
 - FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
 - IF SEDIMENT IS AT OR ABOVE 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- STEP 2) CLEAN OUT ISOLATOR ROW PLUS USING THE JETVAC PROCESS
- A FRESH CLEAN VERY CLEANING NOZZLE WITH REAR FACING SPREAD OF 45° (1.1 m) OR MORE IS PREFERRED
 - APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
 - VACUUM STRUCTURE 'SUMP' AS REQUIRED
- STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS. RECORD OBSERVATIONS AND ACTIONS.
- STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.
- ### NOTES
- INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
 - CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.
- NOTE: INSPECTION PORTS MAY BE CONNECTED THROUGH ANY CHAMBER CORRUGATION VALLEY.

WOODBURY APARTMENTS 5,609 MIN CFT STORAGE

ALBUQUERQUE, NM, USA

DATE: 03/24/2025

DRAWN BY: [Name]

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DESIGNED BY: [Name]

PROJECT NO. 22-0148.002

SHEET 4 OF 6

MESA DEL SOL-TRACT A
PHASE 1
(TRACT A) UNIVERSITY BLVD.
SE ALBUQUERQUE, NM 87106

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REVISIONS

- 07/15/2025 COORDINATION
- 07/15/2025 1ST CITY COMMENTS

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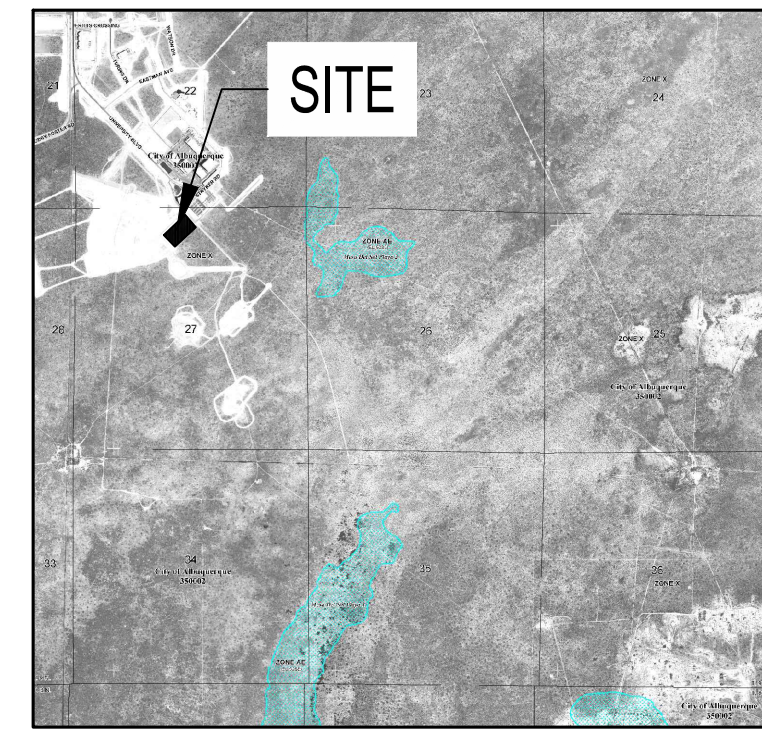
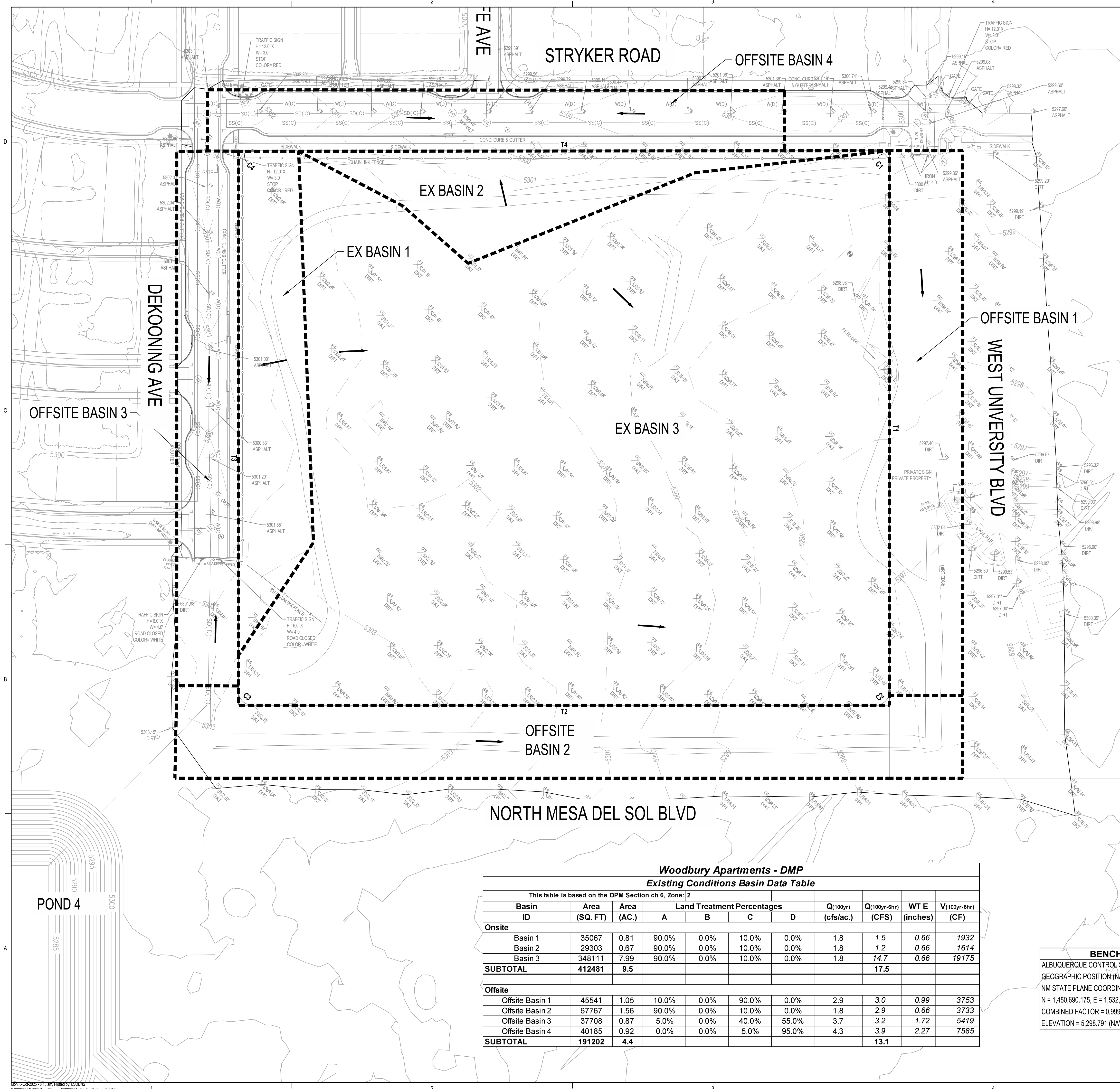
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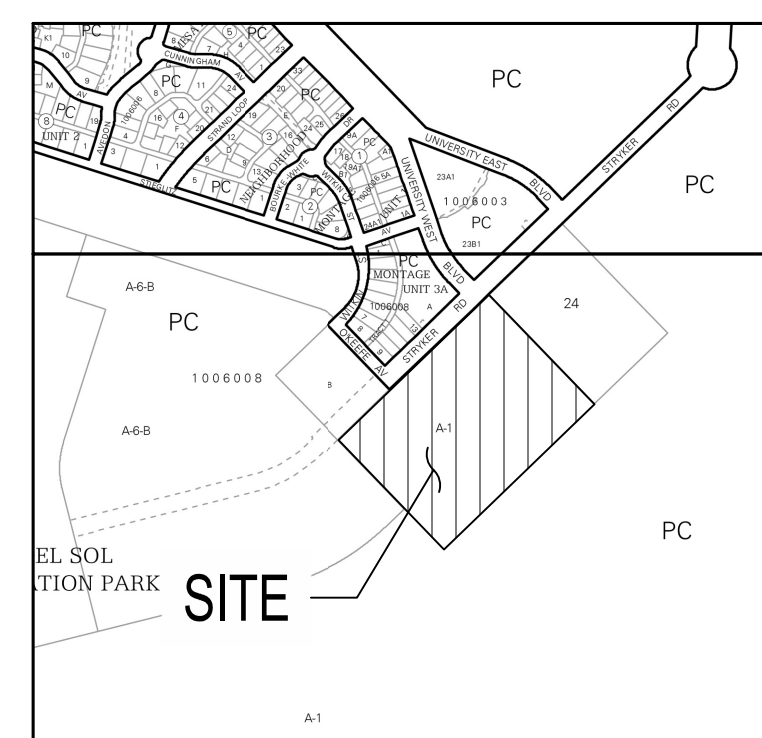
PROJECT NO. 22-0148.002

DRAWING NAME: GRADING DETAILS

SHEET NO. C207



FEMA FIRM MAP # 35001C0555H



VICINITY MAP NOT TO SCALE

DRAINAGE NARRATIVE:

INTRODUCTION:
THE PROJECT IS LOCATED ON THE SOUTHEAST CORNER OF STRYKER ROAD AND DEKOONING AVE INTERSECTION. THE SITE WILL CONSIST OF 9 TOTAL MULTI FAMILY AND RETAIL BUILDINGS WITH ASSOCIATED PARKING, LANDSCAPING, AND SITE AMENITIES. THE SITE IS IN RAINFALL ZONE 2 AS DEFINED BY THE DPM.

METHODOLOGY:
THE HYDRAULIC ANALYSIS PROVIDED WITH THIS DRAINAGE SUBMITTAL HAS BEEN PREPARED IN ACCORDANCE WITH SECTION 6.2 OF THE CITY OF ALBUQUERQUE DPM. LAND TREATMENT PERCENTAGES WERE CALCULATED BASED ON THE ACTUAL CONDITIONS IN EACH ONSITE BASIN AND ARE SUMMARIZED IN THE "PROPOSED CONDITIONS BASIN DATA TABLE" ON THIS SHEET. THIS SITE WAS ANALYZED FOR THE 100-YEAR, 6-HOUR STORM EVENT. THIS PLAN DEMONSTRATES THE PROPOSED GRADING AND DRAINAGE CONCEPTS.

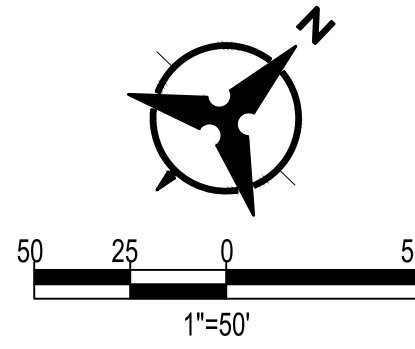
EXISTING CONDITIONS:
IN THE EXISTING CONDITIONS, THERE IS NO DEVELOPMENT IN THE PROPOSED SITE. BASED ON THE EXISTING TOPO, THE SITE IS DIVIDED INTO THREE ONSITE BASINS AND FOUR OFFSITE BASINS. ONSITE EXISTING BASIN 1 DRAINS SOUTHWEST TOWARD DEKOONING AVE AND COMBINES WITH FLOW FROM OFFSITE BASINS 3. ONSITE EXISTING BASIN 2 DRAINS NORTHWEST TOWARDS STRYKER ROAD AND COMBINES WITH OFFSITE BASIN 4. THERE IS EXISTING STORM DRAIN INFRASTRUCTURE WITHIN STRYKER ROAD AND DEKOONING AVE WHICH CONVEYS THESE FLOWS TO POND 4 LOCATED AT THE SOUTHWEST CORNER OF DEKOONING AVE AND NORTH MESA DEL SOL BLVD. ONSITE EXISTING BASIN 3 CONSISTS OF THE MAJORITY OF THE PROPOSED SITE AND DRAINS SOUTHWEST. OFFSITE BASIN 1 AND 2 SURFACE DRAINS SOUTH AND EAST RESPECTIVELY AND FOLLOWS THE EXISTING TERRAIN DOWNSTREAM. THE TOTAL FLOW FROM ONSITE AND OFFSITE BASINS IN EXISTING CONDITIONS IS SUMMARIZED IN THE TABLE SHOWN ON THIS SHEET.

LEGEND

- BASIN BOUNDARY
- 5320 — PROPOSED INDEX CONTOUR
- 5319 — PROPOSED INTERMEDIATE CONTOUR
- - - 5320 - - - EXISTING INDEX CONTOUR
- - - 5319 - - - EXISTING INTERMEDIATE CONTOUR
- DIRECTION OF FLOW
- ~~~~~ WATER BLOCK/GRADE BREAK

BENCH MARKS

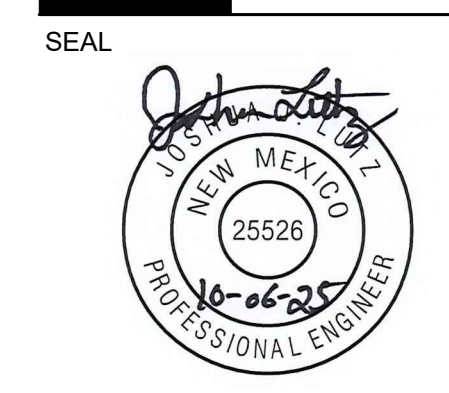
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NM STATE PLANE COORDINATES (CENTRAL ZONE)
N = 1,450,690.175, E = 1,532,134.113
COMBINED FACTOR = 0.999856215
ELEVATION = 5,298.791 (NAVD 88)



Woodbury Apartments - DMP										
Existing Conditions Basin Data Table										
This table is based on the DPM Section ch 6, Zone: 2										
Basin ID	Area (SQ. FT)	Area (AC.)	Land Treatment Percentages				Q(100yr) (cfs/ac.)	Q(100yr-6hr) (CFS)	WT E (inches)	V(100yr-6hr) (CF)
			A	B	C	D				
Onsite										
Basin 1	35067	0.81	90.0%	0.0%	10.0%	0.0%	1.8	1.5	0.66	1932
Basin 2	29303	0.67	90.0%	0.0%	10.0%	0.0%	1.8	1.2	0.66	1614
Basin 3	348111	7.99	90.0%	0.0%	10.0%	0.0%	1.8	14.7	0.66	19175
SUBTOTAL	412481	9.5						17.5		
Offsite										
Offsite Basin 1	45541	1.05	10.0%	0.0%	90.0%	0.0%	2.9	3.0	0.99	3753
Offsite Basin 2	67767	1.56	90.0%	0.0%	10.0%	0.0%	1.8	2.9	0.66	3733
Offsite Basin 3	37708	0.87	5.0%	0.0%	40.0%	55.0%	3.7	3.2	1.72	5419
Offsite Basin 4	40185	0.92	0.0%	0.0%	5.0%	95.0%	4.3	3.9	2.27	7585
SUBTOTAL	191202	4.4						13.1		

DEKKER PERICH SABATINI

Architecture in Progress



MESA DEL SOL-TRACT A
(Tract A) UNIVERSITY BLVD.
SE ALBUQUERQUE, NM 87106

ARC

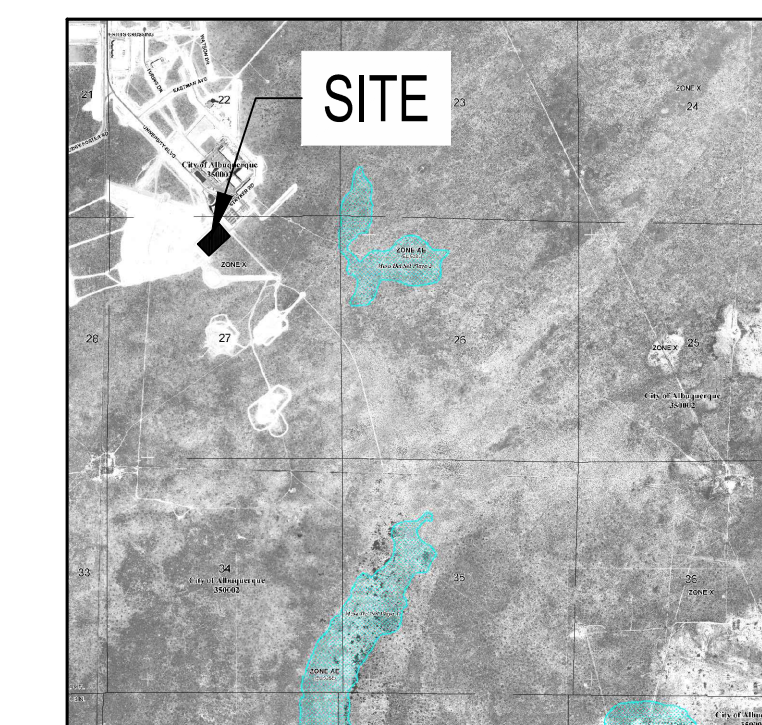
REVISIONS

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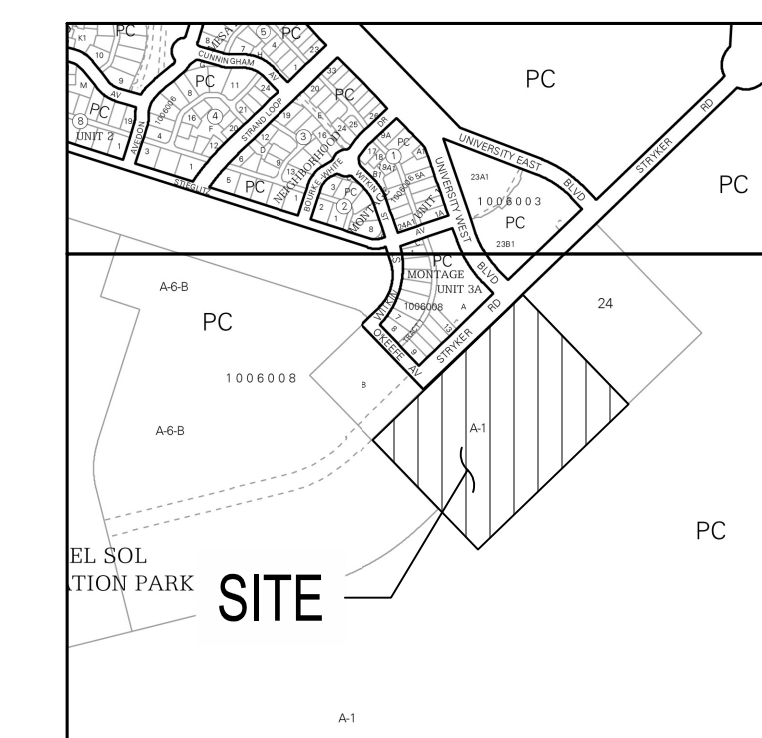
DRAWN BY
REVIEWED BY
DATE 02/22/2024
PROJECT NO. 22-0148

DRAWING NAME
EXISTING DRAINAGE MANAGEMENT PLAN

SHEET NO.
C800



FEMA FIRM MAP # 35001C0555H

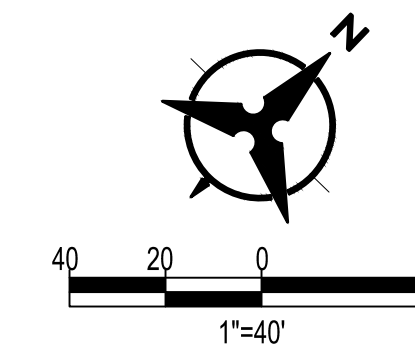


VICINITY MAP NOT TO SCALE

BENCH MARKS
 ALBUQUERQUE CONTROL SURVEY MONUMENT "BH 23-331-01"
 GEOGRAPHIC POSITION (NAD 83)
 NM STATE PLANE COORDINATES (CENTRAL ZONE)
 N = 1,450,690.175, E = 1,532,134.113
 COMBINED FACTOR = 0.999656215
 ELEVATION = 5,298.791 (NAVD 88)

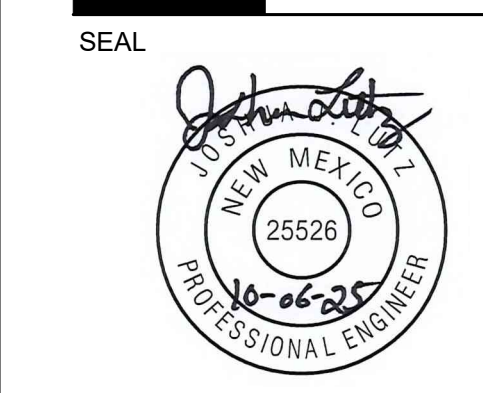
LEGEND

	BASIN BOUNDARY
	PROPOSED INDEX CONTOUR
	PROPOSED INTERMEDIATE CONTOUR
	EXISTING INDEX CONTOUR
	EXISTING INTERMEDIATE CONTOUR
	DIRECTION OF FLOW
	WATER BLOCK/GRADE BREAK
	PROPOSED STORM DRAIN PIPE
	PROPOSED STORM DRAIN MANHOLE
	PROPOSED STORM DRAIN INLETS
	AREA DESIGNATED TO PROVIDE STORM WATER QUALITY VOLUME



Bohannon & Huston
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DEKKER PERICH SABATINI
 Architecture in Progress



MESA DEL SOL-TRACT A
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 SE ALBUQUERQUE, NM 87106

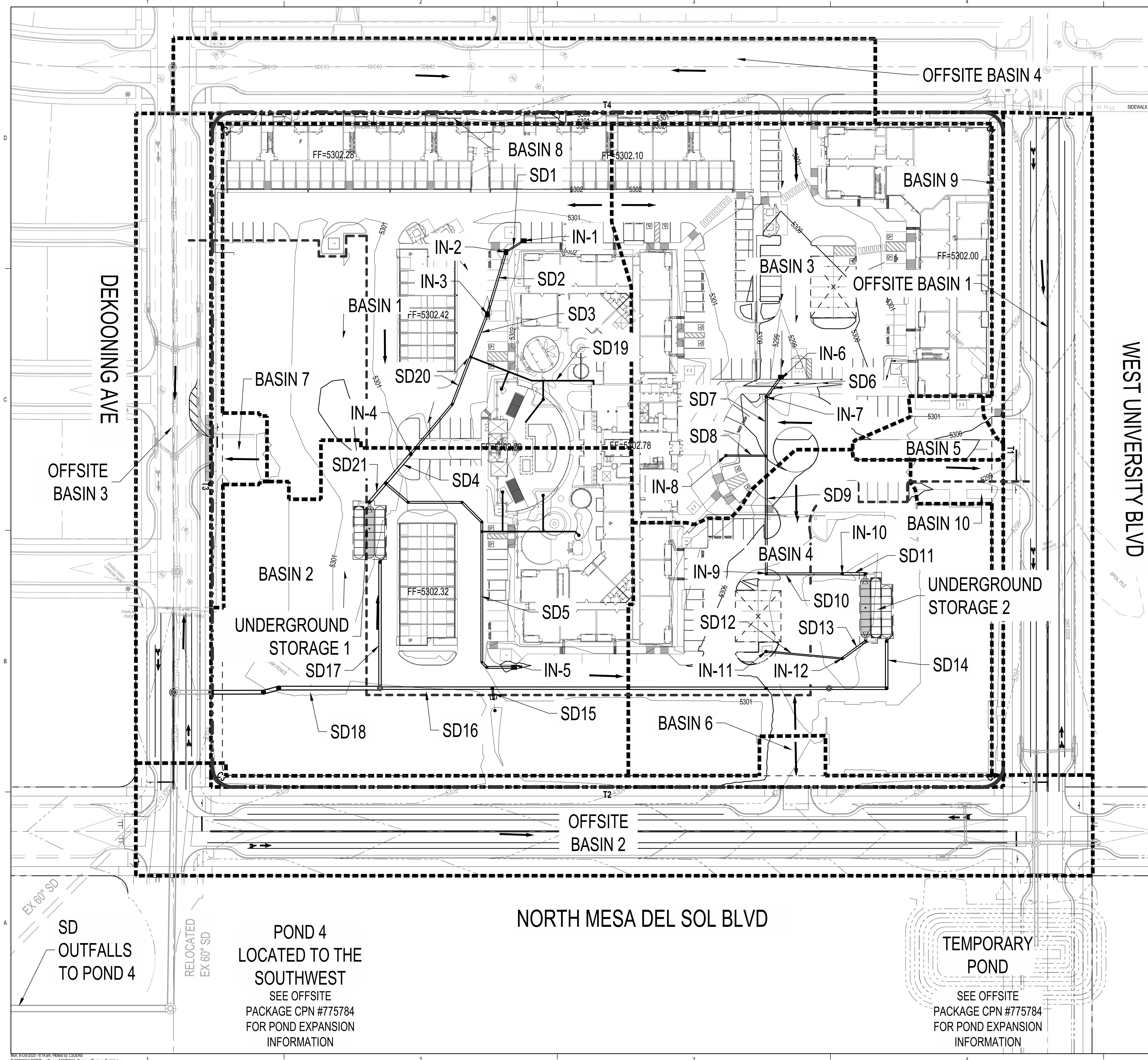
ARC

REVISIONS

DRAWN BY
 REVIEWED BY
 DATE 02/22/2024
 PROJECT NO. 22-0148

DRAWING NAME
 PROPOSED DRAINAGE MANAGEMENT PLAN

SHEET NO. **C801**



POND 4
 LOCATED TO THE
 SOUTHWEST
 SEE OFFSITE
 PACKAGE CPN #775784
 FOR POND EXPANSION
 INFORMATION

**TEMPORARY
 POND**
 SEE OFFSITE
 PACKAGE CPN #775784
 FOR POND EXPANSION
 INFORMATION

DRAINAGE NARRATIVE:

INTRODUCTION:

THE PROJECT IS LOCATED ON THE SOUTHEAST CORNER OF STRYKER ROAD AND DEKOONING AVE INTERSECTION. THE SITE WILL CONSIST OF 9 TOTAL MULTI FAMILY AND RETAIL BUILDINGS WITH ASSOCIATED PARKING, LANDSCAPING, AND SITE AMENITIES. THE SITE IS IN RAINFALL ZONE 2 AS DEFINED BY THE DPM. WE HAD PREVIOUSLY RECEIVED APPROVAL FOR FOUNDATION PERMIT FOR A SINGLE PHASE TRACT PROJECT, BUT NOW WE ARE RESUBMITTING AS THE SITE HAS BEEN SPLIT INTO TWO TRACT, AND THE SECOND PHASE WILL NOT BE CONSTRUCTED IN THE NEAR FUTURE.

METHODOLOGY:

THE HYDRAULIC ANALYSIS PROVIDED WITH THIS DRAINAGE SUBMITTAL HAS BEEN PREPARED IN ACCORDANCE WITH SECTION 6.2 OF THE CITY OF ALBUQUERQUE DPM. LAND TREATMENT PERCENTAGES WERE CALCULATED BASED ON THE ACTUAL CONDITIONS IN EACH ONSITE BASIN AND ARE SUMMARIZED IN THE "PROPOSED CONDITIONS BASIN DATA TABLE" ON THIS SHEET. THIS SITE WAS ANALYZED FOR THE 100-YEAR, 6-HOUR STORM EVENT. THIS PLAN DEMONSTRATES THE PROPOSED GRADING AND DRAINAGE CONCEPTS.

PROPOSED:

IN THE PROPOSED CONDITION, THE SITE IS DIVIDED INTO TEN ONSITE BASINS AND FOUR OFFSITE BASINS. ONSITE BASIN 1 AND 2 MAKE UP THE WESTERN HALF OF THE SITE, WHERE FLOW DRAINS TOWARD THE MIDDLE OF THE SITE AND IS CAPTURED IN A SERIES OF INLETS AND STORM DRAIN INFRASTRUCTURE. FLOW WILL THEN DISCHARGE INTO AN ADS SUBSURFACE RETENTION SYSTEM. ONSITE BASINS 3 AND 4 MAKE UP THE EASTERN HALF OF THE SITE, WHERE FLOW DRAINS SIMILARLY TO THE WESTERN PORTION IN WHICH THE MIDDLE OF EACH BASIN AND IS CAPTURED IN A SERIES OF INLETS AND STORM DRAIN INFRASTRUCTURE. FLOW WILL THEN DISCHARGE INTO AN ADS SUBSURFACE RETENTION SYSTEM. THE ADS SUBSURFACE RETENTION SYSTEM WILL OUTFALL TO THE EXISTING 60" STORM DRAIN PIPE WITHIN DEKOONING AVE. THE 60" STORM DRAIN PIPE DISCHARGES TO POND 4 LOCATED OFFSITE. POND 4 WILL BE UPSIZED TO ACCOMMODATE THE ADDITIONAL FLOWS FROM THIS TRACT. SEE WOODBURY OFFSITES DRAINAGE MANAGEMENT PLAN FOR MORE INFORMATION. ONSITE BASINS 6, 7, AND 8 DRAIN INTO OFFSITE BASINS 2, 3, AND 4, RESPECTIVELY. ONSITE BASINS 9 AND 10 DRAIN INTO OFFSITE BASIN 1.

THERE ARE TWO UNDERGROUND STORAGE TANKS LOCATED AT THE NORTHEAST AND SOUTHEAST PORTIONS OF THE SITE TO CAPTURE FLOWS FROM THESE AREAS. THE REQUIRED STORM WATER QUALITY FOR THE WESTERN HALF OF THE SITE IS APPROXIMATELY 5,609 CF, AND THE UNDERGROUND TANK PROVIDES 5,936 CF OF STORAGE. THEREFORE, THE UNDERGROUND TANK IS IN COMPLIANCE WITH THE STORM WATER STORAGE REQUIREMENTS. THE REQUIRED STORM WATER QUALITY FOR THE EASTERN HALF OF THE SITE IS APPROXIMATELY 6,445 CF AND THE UNDERGROUND TANK IS PROVIDING 6,664 CF. THIS ALSO MEETS THE STORM WATER STORAGE REQUIREMENTS. THE REMAINING VOLUME WILL BE DISCHARGED INTO A FULL RETENTION POND, POND 4. POND 4 WILL BE UPSIZED TO ACCOMMODATE THE ADDITIONAL RUNOFF FROM THIS TRACT. THIS DESIGN MEETS THE INTENT OF THE MESA DEL SOL LEVEL B MASTER PLAN, AND THE CITY OF ALBUQUERQUE DESIGN REQUIREMENTS. WE REQUEST APPROVAL FOR SITE PLAN, FOUNDATION PLAN, AND BUILDING PERMIT AT THIS TIME.

DEVELOPED FLOW FROM OFFSITE BASINS 1 AND 2 WILL BE CONVEYED TO A TEMPORARY POND LOCATED NORTHEAST OF NORTH MESA DEL SOL BLVD. ONCE NORTH MESA DEL SOL BLVD IS EXTENDED, THIS POND WILL BE RELOCATED.

Woodbury Apartments - DMP																			
Proposed Conditions Basin Data Table																			
This table is based on the DPM Section ch 6, Zone: 2																			
Basin ID	Area (SQ. FT)	Area (AC.)	Land Treatment Percentages				Q(100yr) (cfs/ac.)	Q(100yr-6hr) (CFS)	WT E (inches)	V(100yr-6hr) (CF)	V(100yr-10day) (CF)	V(100yr-10day) (AC-FT)	Imperv. Area (SF)	First Flush (IN)	SWQV				
			A	B	C	D									Required Volume (CF)	Req'd Volume (AC-FT)	Volume Provided (AC-FT)	Q(2yr) (cfs/ac.)	Q(2yr) (CFS)
Onsite																			
BASIN 1	100875	2.32	0.0%	0.0%	13.0%	87.0%	4.2	9.7	2.16	18166	27,893	0.64	87,762	0.420	3,072	0.071	0.088	1.70	3.93
BASIN 2	101738	2.34	0.0%	0.0%	7.0%	93.0%	4.2	9.9	2.24	18983	29,469	0.68	94,616	0.420	3,312	0.076	0.036	1.77	4.14
BASIN 3	94761	2.18	0.0%	0.0%	14.0%	86.0%	4.2	9.0	2.15	16962	25,995	0.60	81,494	0.420	2,852	0.065	0.209	1.68	3.66
BASIN 4	78182	1.79	0.0%	0.0%	10.0%	90.0%	4.2	7.6	2.20	14333	22,132	0.51	70,364	0.420	2,463	0.057	0.000	1.73	3.11
BASIN 5	5390	0.12	0.0%	0.0%	50.0%	50.0%	3.7	0.5	1.68	755	1,053	0.02	2,695	0.420	94	0.002	0.000	1.23	0.15
BASIN 6	9003	0.21	0.0%	0.0%	80.0%	20.0%	3.3	0.7	1.29	968	1,167	0.03	1,801	0.420	63	0.001	0.000	0.85	0.18
BASIN 7	6767	0.16	0.0%	0.0%	78.0%	22.0%	3.3	0.5	1.32	742	907	0.02	1,489	0.420	52	0.001	0.000	0.88	0.14
BASIN 8	5558	0.13	0.0%	0.0%	95.0%	5.0%	3.1	0.4	1.10	507	538	0.01	278	0.420	10	0.000	0.000	0.66	0.08
BASIN 9	4752	0.11	0.0%	0.0%	75.0%	25.0%	3.4	0.4	1.36	537	668	0.02	1,188	0.420	42	0.001	0.000	0.92	0.10
BASIN 10	5455	0.13	0.0%	0.0%	50.0%	50.0%	3.7	0.5	1.68	764	1,066	0.02	2,727	0.420	95	0.002	0.000	1.23	0.15
SUBTOTAL	412481	9.5										2.55				0.277	0.333		15.64
Offsite																			
Offsite Basin 1	45574	1.05	0.0%	0.0%	10.0%	90.0%	4.2	4.4	2.20	8355	12,901	0.30	41,017	0.420	1,436	0.033	0.840	1.73	1.81
Offsite Basin 2	67702	1.55	0.0%	0.0%	10.0%	90.0%	4.2	6.5	2.20	12412	19,165	0.44	60,932	0.420	2,133	0.049	0.840	1.73	2.70
Offsite Basin 3	37728	0.87	0.0%	0.0%	10.0%	90.0%	4.2	3.6	2.20	6917	10,680	0.25						1.73	1.50
Offsite Basin 4	40298	0.93	0.0%	0.0%	10.0%	90.0%	4.2	3.9	2.20	7388	11,408	0.26						1.73	1.60
SUBTOTAL	191302	4.4										1.24							7.62

STORM DRAIN PIPE TABLE

PIPE ID	Contributing Basins and Storm Drains	Size in.	Slope (%)	FULL PIPE CAPACITY* cfs	ACTUAL FLOW cfs
SD1	IN-1	12	0.84%	3.3	2.9
SD2	SD1 + IN-2	18	0.84%	9.6	3.9
SD3	SD 2 + IN-3	18	0.81%	9.5	5.3
SD4	IN-4 + SD20	24	0.81%	20.4	12.1
SD5	IN-5	18	0.91%	10.0	7.4
SD6	IN-6	18	1.23%	11.6	5.9
SD7	IN-7 + SD 6	18	1.23%	11.6	7.7
SD8	IN-8	12	1.55%	4.4	1.4
SD9	SD7 + SD8	18	1.23%	11.6	9.0
SD10	IN-9 + SD9	18	1.23%	11.6	10.9
SD11	IN-10 + SD 10	24	1.23%	25.1	12.8
SD12	IN-11	12	2.68%	5.8	1.9
SD13	IN-12 + SD12	18	1.00%	10.5	3.8
SD14	SD11 + SD 13	24	0.60%	17.5	16.6
SD15	N/A	18	1.09%	11.0	0.0
SD16	SD14 + SD15	24	1.16%	24.4	16.6
SD17	SD21	24	5.90%	54.9	19.6
SD18	SD16 + SD17	36	1.16%	71.8	36.2
SD19	20% of Basin 1	8	2.81%	2.0	1.9
SD20	SD3 + SD19	18	0.82%	9.5	7.2
SD21	SD4 + SD 5	24	0.81%	20.4	19.6

INLET TABLE

Inlet ID	CONTRIBUTING BASIN	Inlet Type	Routed Flow CFS	Allowable Head FT	Capacity CFS
IN-1	30% of Basin 1	2x3 NYLOPLAST CURB INLET	2.9	0.50	3.9
IN-2	10% of Basin 1	2x3 NYLOPLAST CURB INLET	1.0	0.50	3.9
IN-3	15% of Basin 1	2x3 NYLOPLAST CURB INLET	1.4	0.30	2.9
IN-4	25% of Basin 1 + 25% of Basin 2	30" NYLOPLAST DOME GRATE*	4.9	0.80	6.0
IN-5	75% of Basin 2	SINGLE TYPE A INLET	7.4	0.50	7.5
IN-6	65% of Basin 3	SINGLE TYPE A INLET	5.9	0.50	7.5
IN-7	20% of Basin 3	18" NYLOPLAST DOME GRATE	1.8	0.50	2.0
IN-8	15% of Basin 3	18" NYLOPLAST DOME GRATE	1.4	0.50	2.0
IN-9	25% of Basin 4	18" NYLOPLAST DOME GRATE	1.9	0.50	2.0
IN-10	25% of Basin 4	18" NYLOPLAST DOME GRATE	1.9	0.50	2.0
IN-11	25% of Basin 4	18" NYLOPLAST DOME GRATE	1.9	0.50	2.0
IN-12	25% of Basin 4	18" NYLOPLAST DOME GRATE	1.9	0.50	2.0

Storage	Basins	Req'd Volume (CF)	Volume Provided (CF)
Underground Storage #1	Basins 3, 4, 5, 6, 9, 10	5,609	5936
Underground Storage #2	Basin 1, 2, 7, 8	6,445	6664

