

EX

NEW

ASPHALT PAVING (IMPERVIOUS)

CONCRETE PAVING (IMPERVIOUS)

NEW FLAGSTONE PAVING (IMPERVIOUS)

NEW CONCRETE PAVERS (SEMI-PERVIOUS)

NEW WOOD DECK (PERVIOUS)


PERVIOUS PAVING



PLANTED, LANDSCAPED AREA


GRAVEL OR DECOMPOSED GRANITE (PERVIOUS)


EROSION CONTROL BLANKET


BUILDING ADDITION


AD  AREA DRAIN


 OR  DRAINAGE INLET


 RL ROOF LEADER


 FIRE HYDRANT

 JOINT POLE

 GAS METER, ELECTRIC METER

 WATER METER

 EX TREE

 EX TREE DRIPLINE

PROPERTY LINE

EASEMENT LINE

EX WOODEN RET WALL

DRAINAGE DITCH/ BIO-SWALE

UNDISTURBED SOIL

COMPACTED FILL MATERIAL

GEOTEXTILE

EROSION CONTROL BLANKET

TURF REINFORCING MAT

STRAW WATTLE

RUNOFF FLOW DIRECTION

SWALE FLOW DIRECTION

STORMWATER LEVEL SPREADER

BUBBLE-UP DRAINAGE EMITTER

POP-UP DRAINAGE EMITTER

SUBDRAIN END CAP

SUBDRAIN OR STORMWATER CLEANOUT

SUBDRAIN OUTLET

HIDDEN FOUNDATION OR RETAINING WALL

TREE PROTECTION FENCING

EX

NEW

CONC RETAINING WALL

SUBDRAIN (PERFORATED PIPE)

STORM DRAIN PIPE

E/OH ELECTRICAL OVERHEAD LINE

E/UG ELECTRICAL UNDERGROUND

COM/OH COMMUNICATION OVERHEAD LINE

COM/UG COMMUNICATION UNDERGROUND

JOINT TRENCH

SANITARY SEWER

WATER LINE

GAS LINE

EDGE OF ROAD

ROOF EAVE

EX FENCE

NEW WIRE FENCE

NEW WOOD FENCE

EXISTING GRADE ELEVATION CONTOUR

FINISHED GRADE ELEVATION CONTOUR

85.5 x FINISHED GRADE ELEVATION

REMOVE EX TREE

GENERAL NOTES:

1. SITE SURVEY AND TOPOGRAPHIC BASE MAP PREPARED BY DMG ENGINEERING, INC. 30 OAKVUE COURT, PLEASANT HILL, CA 94523. (925) 787-0463. DATED 2-3-2021. BASIS OF ELEVATION: ELEVATIONS SHOWN ARE ON AN ASSUMED DATUM. NAIL & 2-1/4" SHINER IN BROOKDALE AVENUE, ELEVATION = 100.00 FEET.

2. THE LOCATION OF EXISTING UNDERGROUND UTILITIES OR IMPROVEMENTS HAS NOT BEEN VERIFIED BY THE ENGINEER AND NO GUARANTEE IS MADE AS TO THE ACCURACY OR COMPLETENESS OF INFORMATION SHOWN ON THE DRAWINGS. THE CONSTRUCTION CONTRACTOR MUST NOTIFY UTILITY COMPANIES AT LEAST TWO WORKING DAYS BEFORE EXCAVATION AND REQUEST FIELD LOCATION OF ALL UNDERGROUND UTILITIES. CALL UNDERGROUND SERVICE ALERT (USA) AT 811 OR 800-227-2600. ANY UTILITIES DAMAGED DURING CONSTRUCTION SHALL BE COMPLETELY RESTORED TO THE SATISFACTION OF THE LOCAL UTILITY ENGINEER, AT THE SOLE EXPENSE OF THE CONTRACTOR. ANY PROPERTY DAMAGE OR DAMAGE TO CONSTRUCTED FACILITIES SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER AND OWNER AT THE SOLE EXPENSE OF THE CONTRACTOR.

EROSION CONTROL PLAN

AN APPROVED EROSION CONTROL PLAN IS REQUIRED FOR ALL PROJECTS INVOLVING EXCAVATION, DRILLING, OTHER EARTHWORK OR EXPOSED BARE SOIL. THE PLAN MUST BE SUBMITTED TO THE TOWN ENGINEER AND APPROVED PRIOR TO STARTING WORK. IMPLEMENT EROSION CONTROL MEASURES YEAR ROUND AS APPROPRIATE. REGULARLY MONITOR EROSION CONTROL MEASURES AND PROMPTLY REPAIR OR REPLACE ANY DAMAGED OR INEFFECTIVE EROSION CONTROL MEASURES AS REQUIRED BY THE EROSION CONTROL PLAN. A SIGNED COPY OF THE EROSION CONTROL PLAN MUST BE POSTED AT THE WORK SITE.

RETAINING WALL AND FOUNDATION ELEVATIONS

BUILDING FOOTING, GRADE BEAM AND FOUNDATION WALL ELEVATIONS ARE SHOWN ON THE ARCHITECTURAL AND STRUCTURAL DRAWINGS. RETAINING WALL ELEVATIONS SHOWN ON THIS GRADING PLAN ARE BASED ON SURVEYED SITE TOPOGRAPHY. CONTACT THE ENGINEER IF ACTUAL SITE ELEVATIONS DIFFER FROM THE TOPOGRAPHY SHOWN ON THE GRADING PLAN. CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL FOUNDATION AND RETAINING WALL ELEVATIONS WITH THE GRADING PLAN, ARCHITECTURAL PLANS, STRUCTURAL PLANS AND LANDSCAPE PLANS. CONTACT THE ENGINEER AND ARCHITECT TO RESOLVE ANY CONFLICTS BETWEEN WALL ELEVATIONS, FOUNDATION ELEVATIONS OR THE SITE TOPOGRAPHY.

DETAIL AND SECTION DESIGNATIONS

SECTION LETTER

SHEET ON WHICH SECTION IS SHOWN

DETAIL NUMBER

SHEET ON WHICH DETAIL IS SHOWN

SECTION

SHEET ON WHICH SECTION IS CALLED OUT

DETAIL

SHEET ON WHICH DETAIL IS CALLED OUT

UTILITY CONNECTION NOTES:

1. THE PROPOSED ALIGNMENT FOR UTILITY SERVICE CONNECTIONS HAS NOT BEEN APPROVED BY SERVICE PROVIDERS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH UTILITY SERVICE PROVIDERS TO DETERMINE UTILITY ROUTES AND REQUIRED SERVICE UPGRADE DETAILS. REVIEW ALL PROPOSED UTILITY ROUTES AND UPGRADE DETAILS WITH THE ENGINEER PRIOR TO CONSTRUCTION.

2. UTILITY SERVICES TO THE PROJECT SITE ARE PROVIDED BY:

WATER: MARIN MUNICIPAL WATER DISTRICT

SEWER: SAN RAFAEL SANITATION DISTRICT

ELECTRIC POWER: PACIFIC GAS AND ELECTRIC (PG&E)

GAS: PACIFIC GAS AND ELECTRIC (PG&E)

TELEPHONE: AT&T

CABLE: COMCAST

DRAINAGE CONSTRUCTION REVIEW

THE CONTRACTOR SHALL CONTACT THE ENGINEER AND REQUEST REVIEW OF ALL SUBSURFACE DRAINAGE PIPING AND STORMWATER DRAINAGE PIPING AT LEAST 2 DAYS BEFORE PLACING BACKFILL MATERIAL.

ESTIMATED EARTHWORK QUANTITIES	
EXCAVATION	400 CY
FILL	210 CY
EXCESS	130 CY
MAX. EXCAVATION DEPTH	10 FT
MAX. FILL DEPTH	4 FT
DISTURBED AREA	.026 AC

EARTHWORK NOTES:

1. QUANTITIES ARE "IN-PLACE" ESTIMATES AND DO NOT INCLUDE AN ALLOWANCE FOR SHRINK OR SWELL. ESTIMATES ARE FOR PERMITTING PURPOSES ONLY. CONTRACTOR IS RESPONSIBLE FOR INDEPENDENTLY DETERMINING QUANTITIES FOR CONSTRUCTION PURPOSES.

2. LEGALLY DISPOSE OF EXCESS MATERIAL OFF-SITE.

3. SITE GRADING IS NOT PERMITTED BETWEEN OCTOBER 15 AND APRIL 15 UNLESS PERMITTED IN WRITING BY THE BUILDING OFFICIAL/ DIRECTOR OF PUBLIC WORKS.

GREEN BUILDING STANDARDS

1. THE GRADING AND DRAINAGE PLAN SHOWN ON THE DRAWINGS COMPLIES WITH CALIFORNIA GREEN BUILDING CODE STANDARDS SECTION 4.106.3 REQUIRING MANAGEMENT OF SURFACE WATER FLOWS TO KEEP WATER FROM ENTERING BUILDINGS.

2. THE CONTRACTOR IS RESPONSIBLE FOR MANAGING STORMWATER DRAINAGE DURING CONSTRUCTION TO PREVENT FLOODING OF ADJACENT PROPERTY, PREVENT EROSION AND RETAIN RUNOFF ON THE SITE AS REQUIRED BY CALIFORNIA GREEN BUILDING CODE STANDARDS SECTION 4.106.2.

INDEX OF DRAWINGS	
DRAWING NO.	DESCRIPTION
C-1	COVER SHEET
C-2	CONCEPTUAL DRAINAGE PLAN
C-3	CONCEPTUAL UTILITIES PLAN
C-4	CONCEPTUAL GRADING PLAN
C-5	STREET FRONTAGE IMPROVEMENTS
C-6	SECTIONS AND DETAILS

ABBREVIATIONS

AB AGGREGATE BASE

AC ASPHALT CONCRETE

AD AREA DRAIN

ADA AMERICANS WITH DISABILITIES ACT

APN ASSESSOR'S PARCEL NUMBER

APPROX APPROXIMATE

ASTM AM. SOCIETY OF TESTING MATERIALS

BM BENCH MARK

BPD BACKWATER PREVENTION DEVICE

CMP CORRUGATED METAL PIPE

CO CLEANOUT

COM COMMUNICATION

COM/OH COMMUNICATION OVERHEAD

COMM/UG COMMUNICATION UNDERGROUND

CONC CONCRETE

CY CUBIC YARDS

DI DRAINAGE INLET

DIA DIAMETER

E ELECTRICAL

E/OH ELECTRICAL OVERHEAD

E/UG ELECTRICAL UNDERGROUND

EG EXISTING GROUND

EL or ELEV ELEVATION

EX EXISTING

FD FLOOR DRAIN

FF FINISHED FLOOR ELEVATION

FL FLOW LINE

FG FINISHED GRADE ELEVATION

FT FEET or FOOT

G NATURAL GAS

GALV GALVANIZED

GM GAS METER

GPM GALLONS PER MINUTE

H HEIGHT OF EXPOSED WALL FACE

HB HOSE BIB

HDPE HIGH DENSITY POLYETHYLENE PIPE

HP HIGH POINT

INV INVERT ELEVATION

JP JOINT UTILITY POLE

JT JOINT UTILITY TRENCH

LLFF LOWER LEVEL FINISHED FLOOR ELEV

LPFF LOW POINT FINISHED FLOOR ELEV

MAX MAXIMUM

MH MANHOLE

MIN MINIMUM

MLFF MAIN LEVEL FINISHED FLOOR ELEV

MMWD MARIN MUNICIPAL WATER DISTRICT

OH OVERHEAD

PG&E PACIFIC GAS AND ELECTRIC

PVC POLYVINYL CHLORIDE PIPE

R RADIUS

RIM ELEV AT MH COVER OR DI GRATE

RL ROOF LEADER

ROW RIGHT-OF-WAY

S SLOPE

SCH SCHEDULE

SIM SIMILAR

SDMH STORM DRAIN MANHOLE

SS SANITARY SEWER

SSMH SANITARY SEWER MANHOLE

SDR STANDARD DIMENSION RATIO

TC TOP OF CURB ELEVATION

TW TOP OF WALL ELEVATION

TYP TYPICAL

UCS UNIFORM CONSTRUCTION STANDARDS, MARIN COUNTY

ULFF UPPER LEVEL FINISHED FLOOR ELEV

VB VALVE BOX

W WATER

WM WATER METER

WV WATER VALVE

STORMWATER PLAN SUMMARY

	EXISTING SITE	PROPOSED SITE DEVELOPMENT PLAN
IMPERVIOUS SURFACES	309 SF	6,604 SF
CONCRETE PAVERS (PERVIOUS)	11,085 SF	2,079 SF
LANDSCAPE (PERVIOUS)	11,394 SF	2,711 SF
TOTAL LOT AREA	11,394 SF	11,394 SF

STORMWATER NOTES:

1. IMPERVIOUS SURFACES INCLUDE ROOF AND WALKWAYS. FOR DRAINAGE PURPOSES, IMPERVIOUS AREA INCLUDES ROOF EAVE OVERHANG AREA.

2. CONCRETE PAVERS INCLUDE PATIOS AND PARKING.

3. NEW OR REPLACEMENT IMPERVIOUS AREA IS 6,360 SF.







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NOT FOR CONSTRUCTION
PROCESSED SECTION
DATE 11/8/21

APR 011-074-04 & 011-074-05
55 BROOKDALE AVENUE
SAN RAFAEL, CALIFORNIA

REVISIONS

NO.	DATE	DESCRIPTION
	7/28/21	ISSUED FOR REVIEW
	11/8/21	REVISED PER CITY COMMENTS 9/4/21
		
		
		
		

DESIGNED BY: G. DEARTH
DRAWN BY: E. HAYDEN
APPROVED BY:

SCALE: NA
DATE: 7/28/2021
PROJECT NO. 662.001

COVER SHEET

REVISION
1
SHEET NO.
1 OF 6
DRAWING
C-1

DESIGN REVIEW NOTES

STORMWATER DRAINAGE PLAN

1. THE CONCEPTUAL STORMWATER DRAINAGE PLAN IS DESIGNED TO COMPLY WITH THE CITY REQUIREMENTS FOR ON-SITE STORMWATER MANAGEMENT AND CONTROL OF STORMWATER RUNOFF TO MINIMIZE OFF-SITE IMPACTS AND IMPROVE STORMWATER QUALITY.
2. THE EXISTING IMPERVIOUS AREA ON THE SITE TOTALS 304 SQ FT..
3. THE PROPOSED DEVELOPMENT PLAN INCLUDES 6,404 SQ FT OF IMPERVIOUS AREA. THE TOTAL LOT AREA IS 11,344 SQ FT. THE PROPOSED TOTAL IMPERVIOUS AREA AMOUNTS TO 56 PERCENT OF THE LOT AREA.
4. THE PROPOSED DEVELOPMENT PLAN MINIMIZES THE USE OF IMPERVIOUS HARDSCAPE. CONCRETE PAVERS WILL BE USED FOR PARKING AREAS AND PATIOS.
5. RUNOFF FROM 5562 SQ FT OF THE PROPOSED NEW IMPERVIOUS AREA WILL BE COLLECTED IN A PIPED DRAINAGE SYSTEM AND DIRECTED TO FOUR BIO-RETENTION BASINS. THE IMPERVIOUS AREA DIRECTED TO THE BIO-RETENTION BASINS INCLUDES THE ENTIRE ROOF AREA OF THE THREE APARTMENT BUILDINGS, WALKWAYS AND PATIOS. RUNOFF FROM REMAINING IMPERVIOUS AREA WILL SHEET FLOW TO LANDSCAPE AREAS OR TO THE STREET.
6. AREA DRAINS IN LANDSCAPE AND HARDSCAPE AREAS ARE LIMITED TO LOCATIONS WHERE THEY ARE NECESSARY TO PREVENT WATER PONDING THAT COULD DAMAGE THE BUILDINGS.
7. THE BIO RETENTION BASINS ARE DESIGNED TO CAPTURE THE 10-YEAR STORM AND INFILTRATE IT INTO THE GROUND IN ACCORDANCE WITH MGSOTPPP GUIDELINES. THE SURFACE AREA OF THE BASINS AND DETAILS OF CONSTRUCTION COMPLY WITH MGSOTPPP GUIDELINES.
8. A FOUNDATION DRAINAGE AND RETAINING WALL BACK DRAINAGE SYSTEM WILL BE CONSTRUCTED USING PERFORATED PVC PIPE. THE SYSTEM WILL OUTLET TO THE GROUND SURFACE AT A SUITABLE LOCATION. PERMANENT EROSION CONTROL WILL BE INSTALLED AT THE OUTLET LOCATION.

EXCAVATION & GRADING PLAN

1. SITE GRADING WILL BE COMPLETED IN CONFORMANCE WITH THE PROJECT GEOTECHNICAL REPORT AND THE APPROVED SITE GRADING PLAN.
2. EXCESS EXCAVATED MATERIAL WILL BE LEGALLY DISPOSED OF AT AN OFF-SITE LOCATION TO BE DETERMINED BY THE CONSTRUCTION CONTRACTOR.

EROSION CONTROL

1. EROSION CONTROL MEASURES WILL BE INCORPORATED INTO THE PROJECT DURING CONSTRUCTION AND IMPLEMENTED BY THE CONSTRUCTION CONTRACTOR. STRAW MATS WILL BE PLACED AROUND THE DOWN-SLOPE PERIMETER OF THE DISTURBED AREA. EXCAVATED AREAS AND SOIL STOCKPILES WILL BE COVERED WITH PLASTIC TARPS TO MINIMIZE EROSION. AREAS DISTURBED DURING CONSTRUCTION WILL BE RESTORED BY SEEDING AND INSTALLATION OF EROSION CONTROL BLANKET AND STRAW MATS.
2. PERMANENT EROSION CONTROL WILL BE PROVIDED BY LANDSCAPING THE ENTIRE DISTURBED AREA AT THE COMPLETION OF THE WORK IN ACCORDANCE WITH THE LANDSCAPING PLANS.

STORMWATER POLLUTION PREVENTION

1. SPECIFICATIONS WILL BE INCLUDED ON THE PROJECT DRAWINGS OUTLINING CONSTRUCTION PRACTICES THAT MUST BE FOLLOWED TO PREVENT STORMWATER POLLUTION. CONSTRUCTION WORKERS WILL BE ADVISED OF REQUIRED CONSTRUCTION MEASURES FOR AVOIDING STORMWATER POLLUTION. THESE MEASURES WILL INCLUDE PROCEDURES FOR MATERIAL STORAGE, USE AND DISPOSAL OF HAZARDOUS MATERIALS (PAINT, SOLVENTS, ADHESIVES, ETC.), WASTE DISPOSAL PROCEDURES, CONCRETE WASHOUT REQUIREMENTS AND OTHER CONSTRUCTION PRACTICES.

UTILITY PLAN

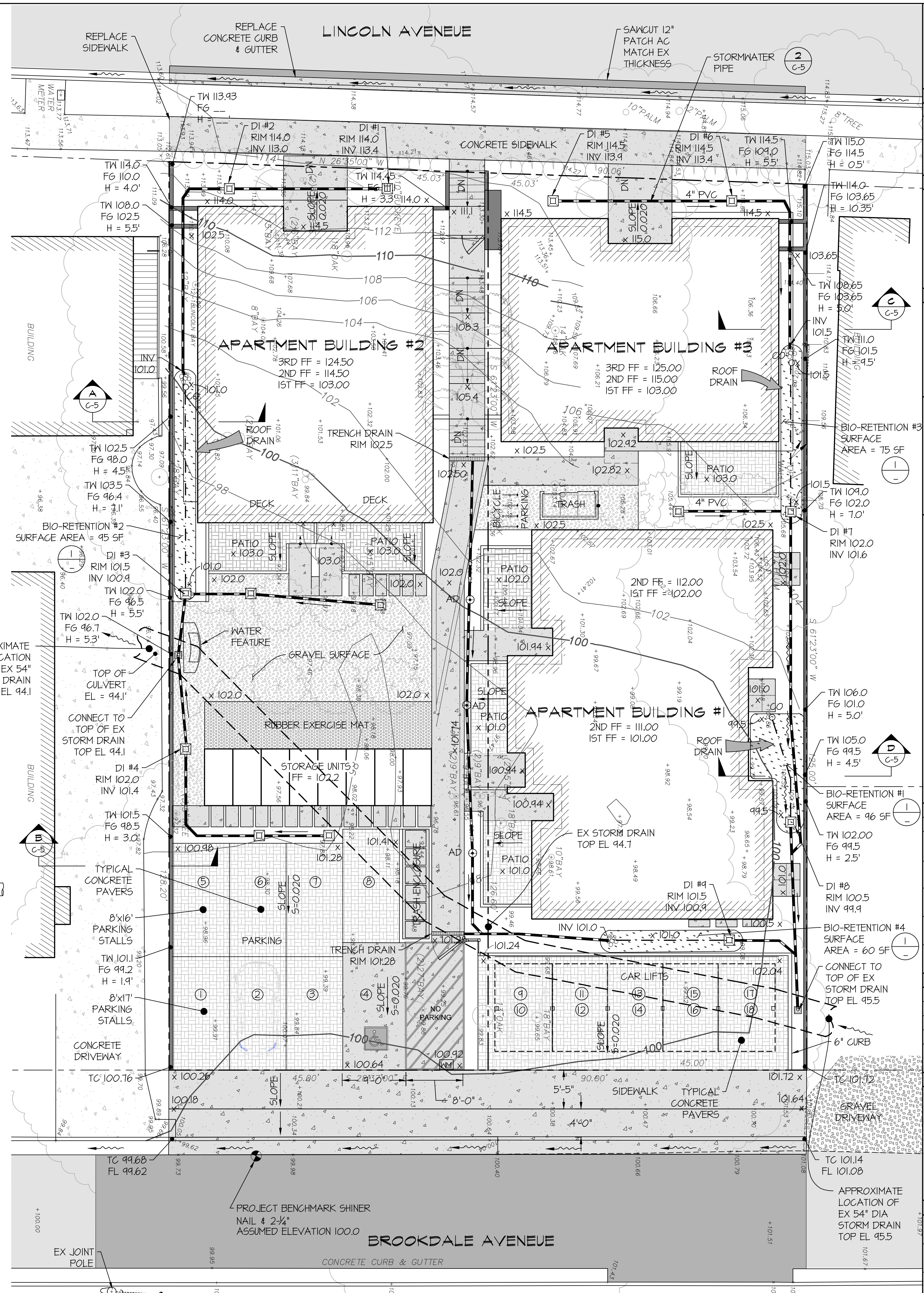
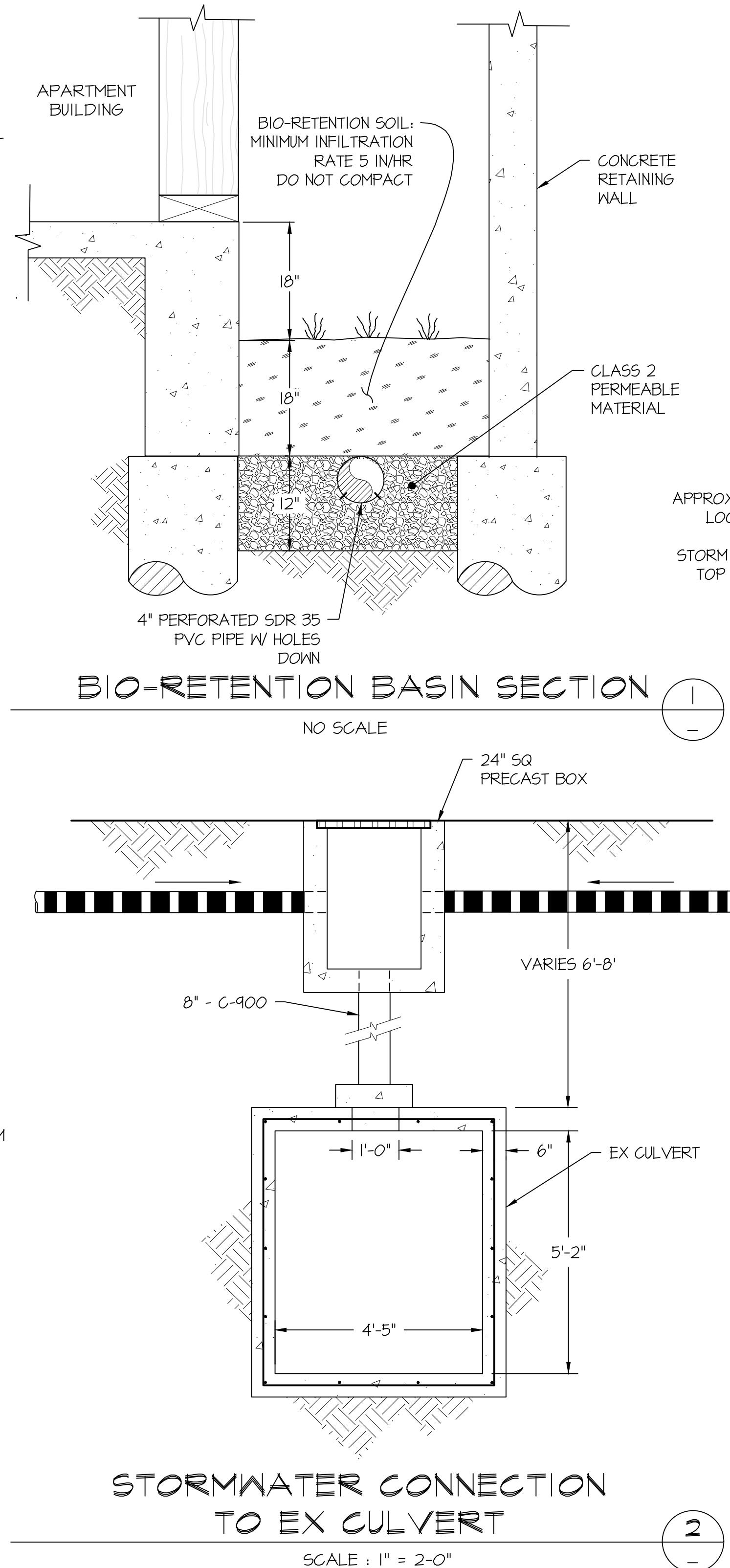
1. WATER: WATER SERVICE WILL BE PROVIDED BY A NEW SERVICE CONNECTION TO THE EXISTING WATER MAIN IN BROOKDALE AVENUE AND AN APPROPRIATELY SIZED METER AS SHOWN ON DRAWING C-2. ALL WATER SYSTEM IMPROVEMENTS WILL BE COMPLETED IN CONFORMANCE WITH MARIN MUNICIPAL WATER DISTRICT STANDARDS.
2. ELECTRIC POWER: ELECTRIC SERVICE WILL BE LOCATED UNDERGROUND FROM THE NEAREST JOINT POLE AS SHOWN ON DRAWING C-2. ALL ELECTRIC POWER SYSTEM IMPROVEMENTS WILL BE COORDINATED WITH PACIFIC GAS AND ELECTRIC (PG&E) AND COMPLETED IN CONFORMANCE WITH PG&E STANDARDS.
3. COMMUNICATION: PHONE AND CABLE TV SERVICE WILL BE LOCATED UNDERGROUND FROM THE NEAREST JOINT POLE AS SHOWN ON DRAWING C-2. ALL COMMUNICATION SYSTEM IMPROVEMENTS WILL BE COORDINATED WITH AT&T AND COMCAST. THE WORK WILL BE COMPLETED IN CONFORMANCE WITH THEIR STANDARDS.
4. NATURAL GAS: GAS SERVICE WILL BE PROVIDED WITH A NEW SERVICE LINE AND METER AS SHOWN ON DRAWING C-2. ALL GAS SYSTEM IMPROVEMENTS WILL BE COORDINATED WITH PACIFIC GAS AND ELECTRIC (PG&E) AND COMPLETED IN CONFORMANCE WITH PG&E STANDARDS.
5. NATURAL GAS: ALL GAS SYSTEM IMPROVEMENTS WILL BE COORDINATED WITH PACIFIC GAS AND ELECTRIC (PG&E) AND COMPLETED IN CONFORMANCE WITH PG&E STANDARDS.
6. SANITARY SEWER: A NEW SEWER LATERAL AND BACK FLOW PREVENTION DEVICES AT EACH BUILDING WILL BE CONSTRUCTED AS SHOWN ON DRAWING C-2. THE LATERAL WILL CONFORM TO SAN RAFAEL SANITATION DISTRICT STANDARDS.

RETAINING WALL CONSTRUCTION NOTES

1. ALL RETAINING WALLS WILL BE REINFORCED CONCRETE CONSTRUCTION SUPPORTED BY SPREAD FOOTINGS OR DRILLED PIERS AS DETERMINED BY THE PROJECT GEOTECHNICAL ENGINEER AND STRUCTURAL ENGINEER.

EXISTING UTILITY LOCATION

CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL EXISTING UTILITIES PRIOR TO STARTING WORK. CONTACT THE ENGINEER TO REVIEW UTILITY LOCATION AND ANY CONFLICTS WITH THE PROPOSED WORK PRIOR TO STARTING WORK. UTILITY LOCATIONS SHOWN ON THIS DRAWING ARE ASSUMED LOCATIONS BASED ON VISIBLE FEATURES AND MAY NOT INCLUDE ALL EXISTING UTILITIES.



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55 BROOKDALE AVENUE
SAN RAFAEL, CALIFORNIA

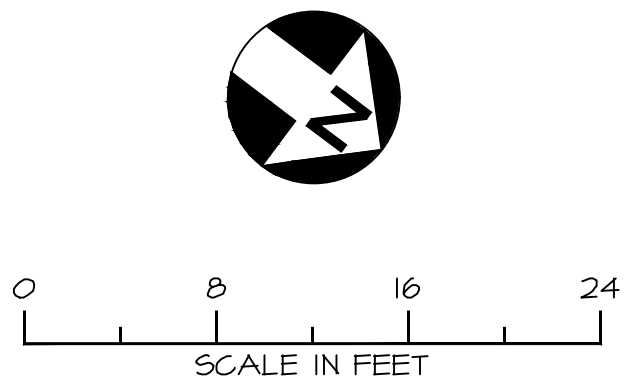
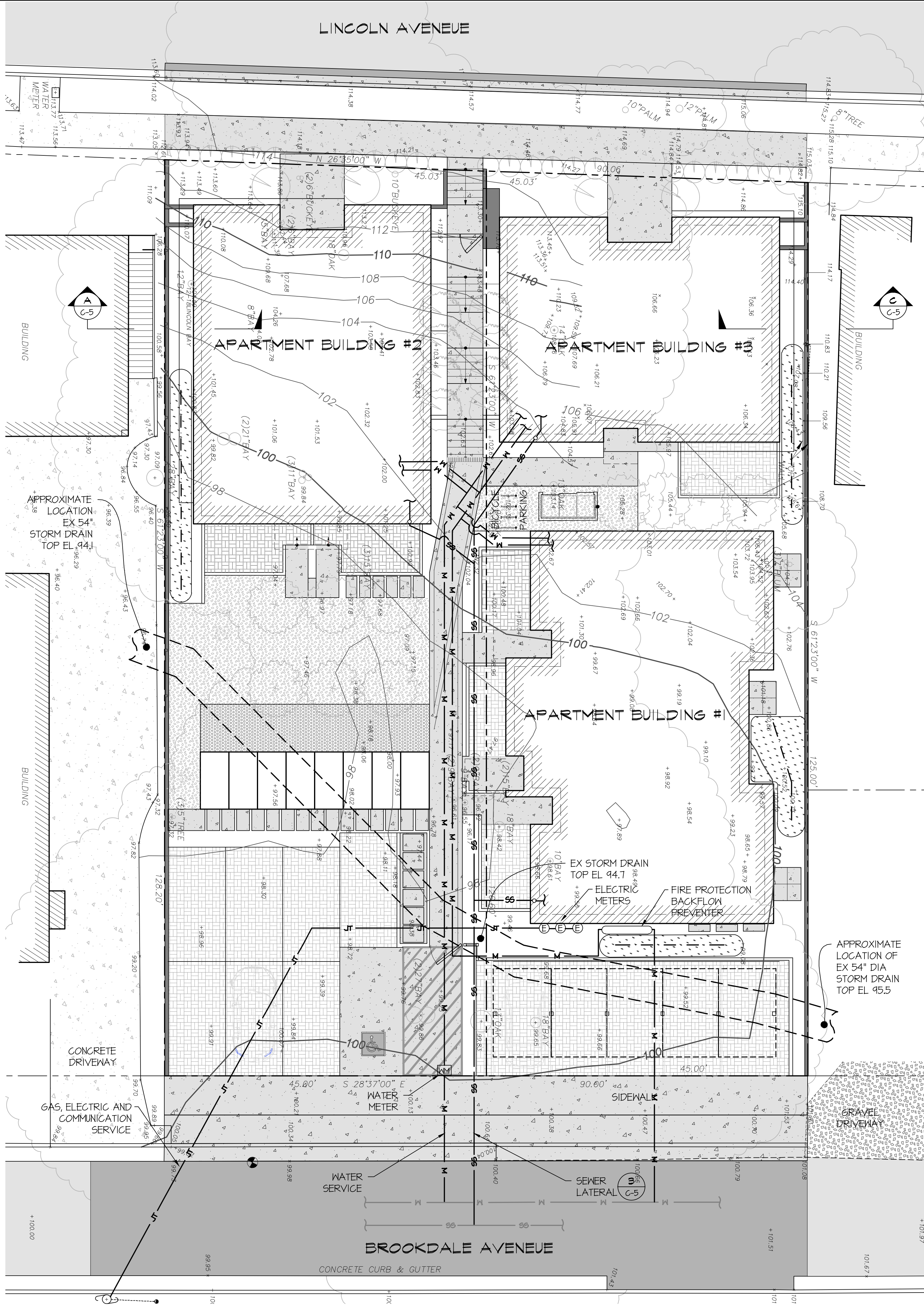
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DESIGNED BY: G. DEARTH
DRAWN BY: E. HAYDEN
APPROVED BY:
SCALE: 1" = 8'-0"
DATE: 1/28/2021
PROJECT NO. 662.001

CONCEPTUAL DRAINAGE PLAN

REVISION	1
SHEET NO.	2 OF 6
DRAWING	C-2

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DRAWN BY: E. HAYDEN

APPROVED BY:

SCALE: 1" = 8'-0"

DATE: 1/28/2021

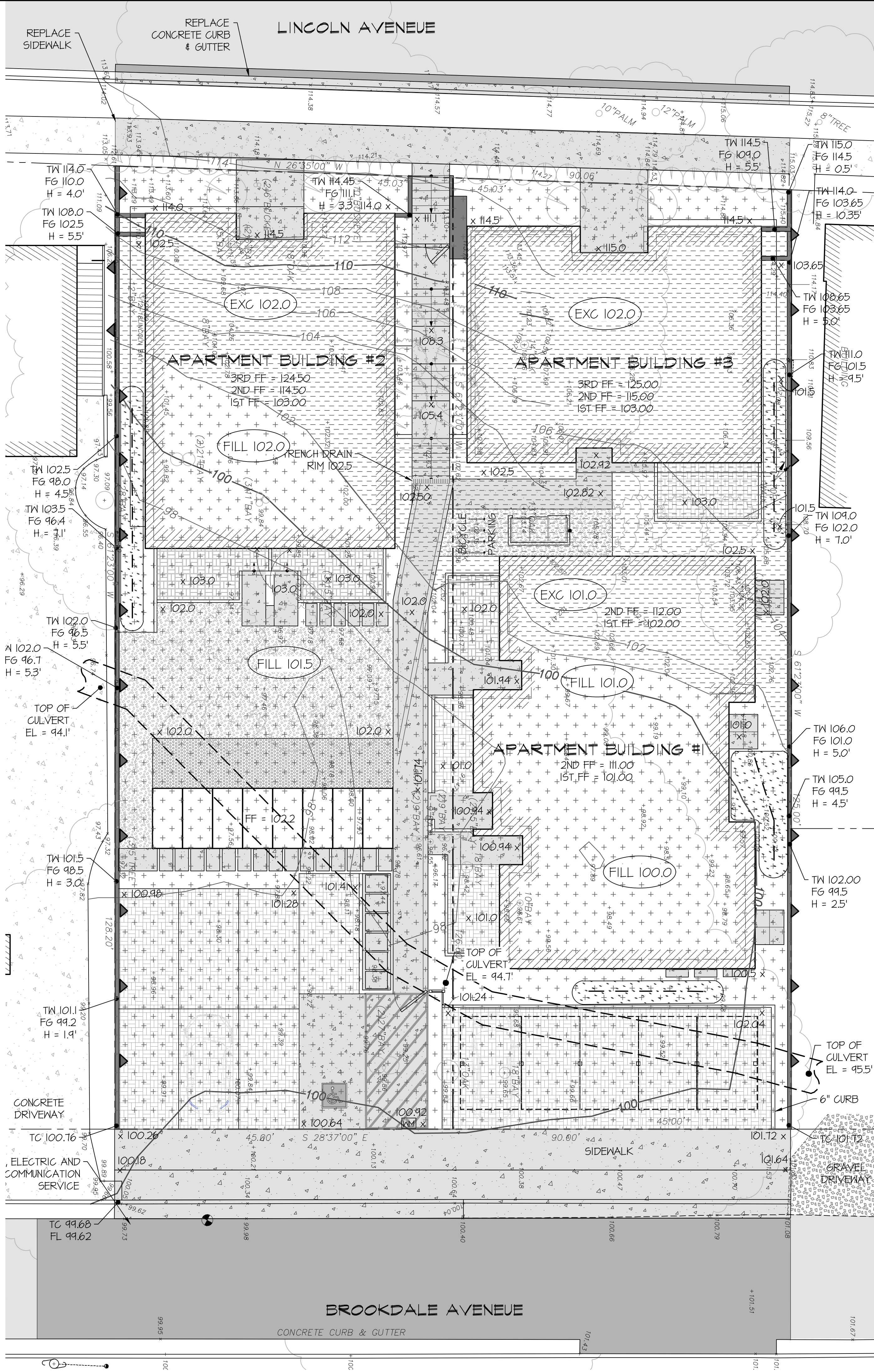
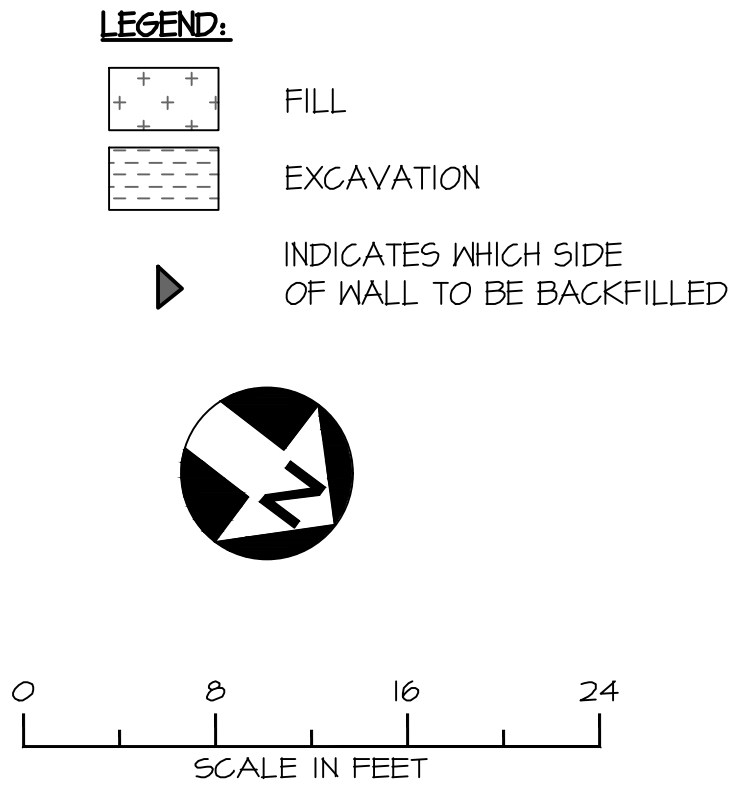
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CONCEPTUAL UTILITIES PLAN

REVISION 1

SHEET NO. 3 OF 6

DRAWING C-3



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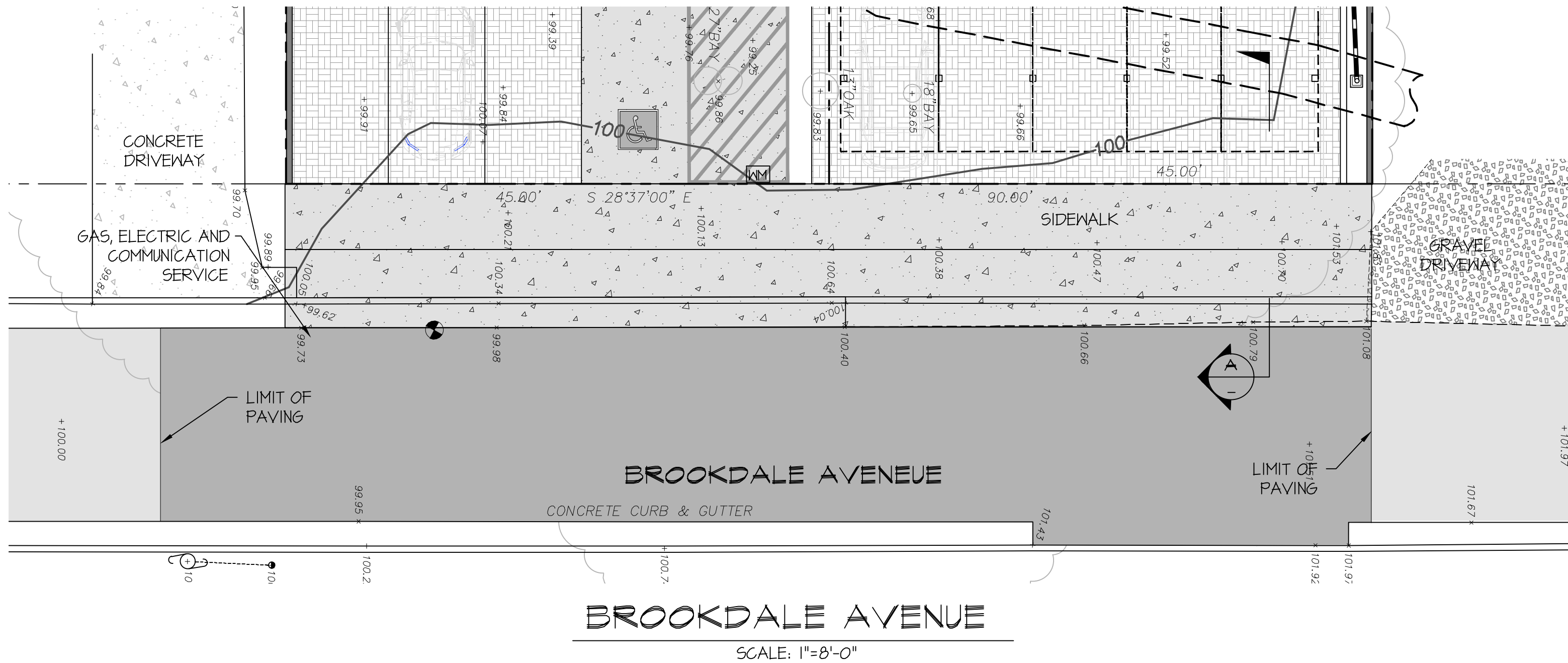
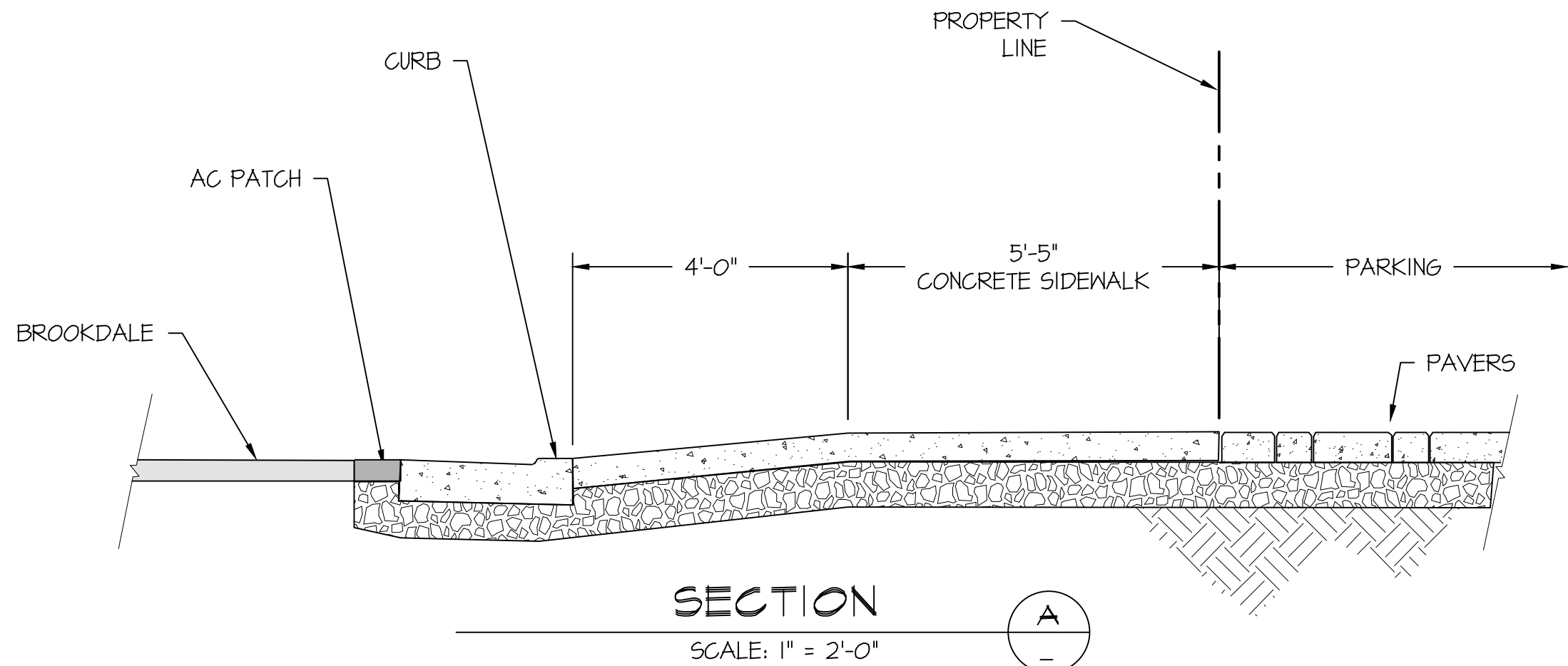
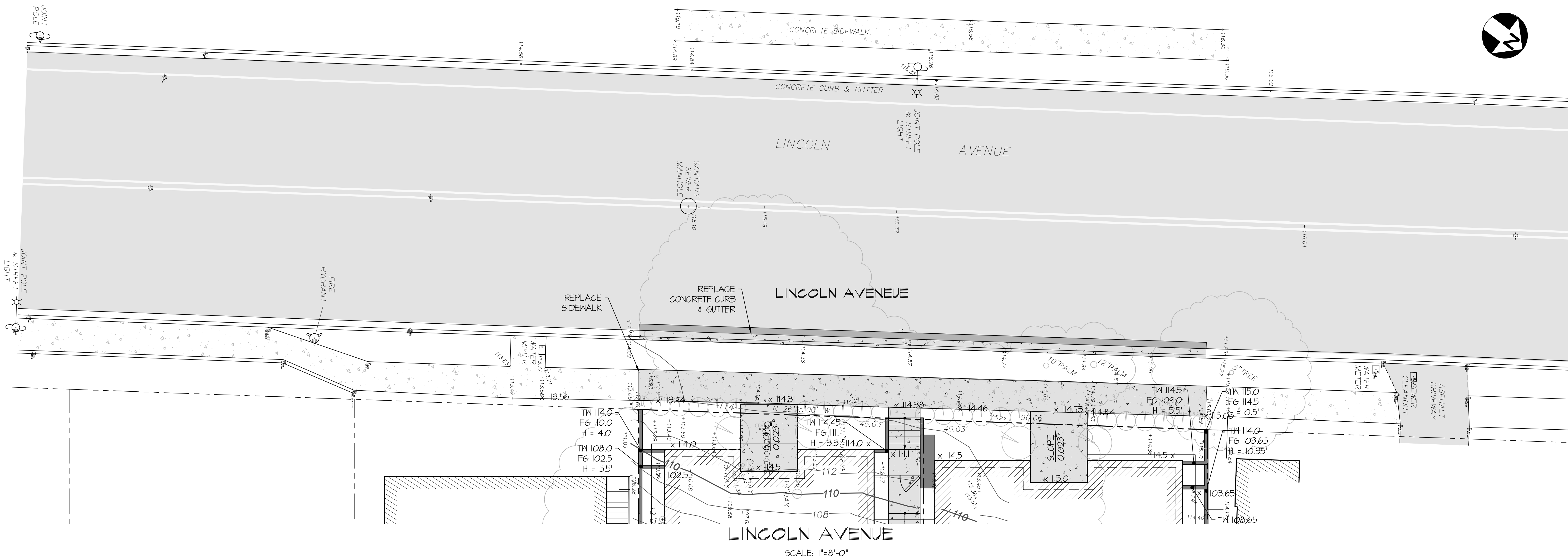
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CONCEPTUAL GRADING PLAN

REVISION	1
SHEET NO.	4 OF 6
DRAWING	C-4

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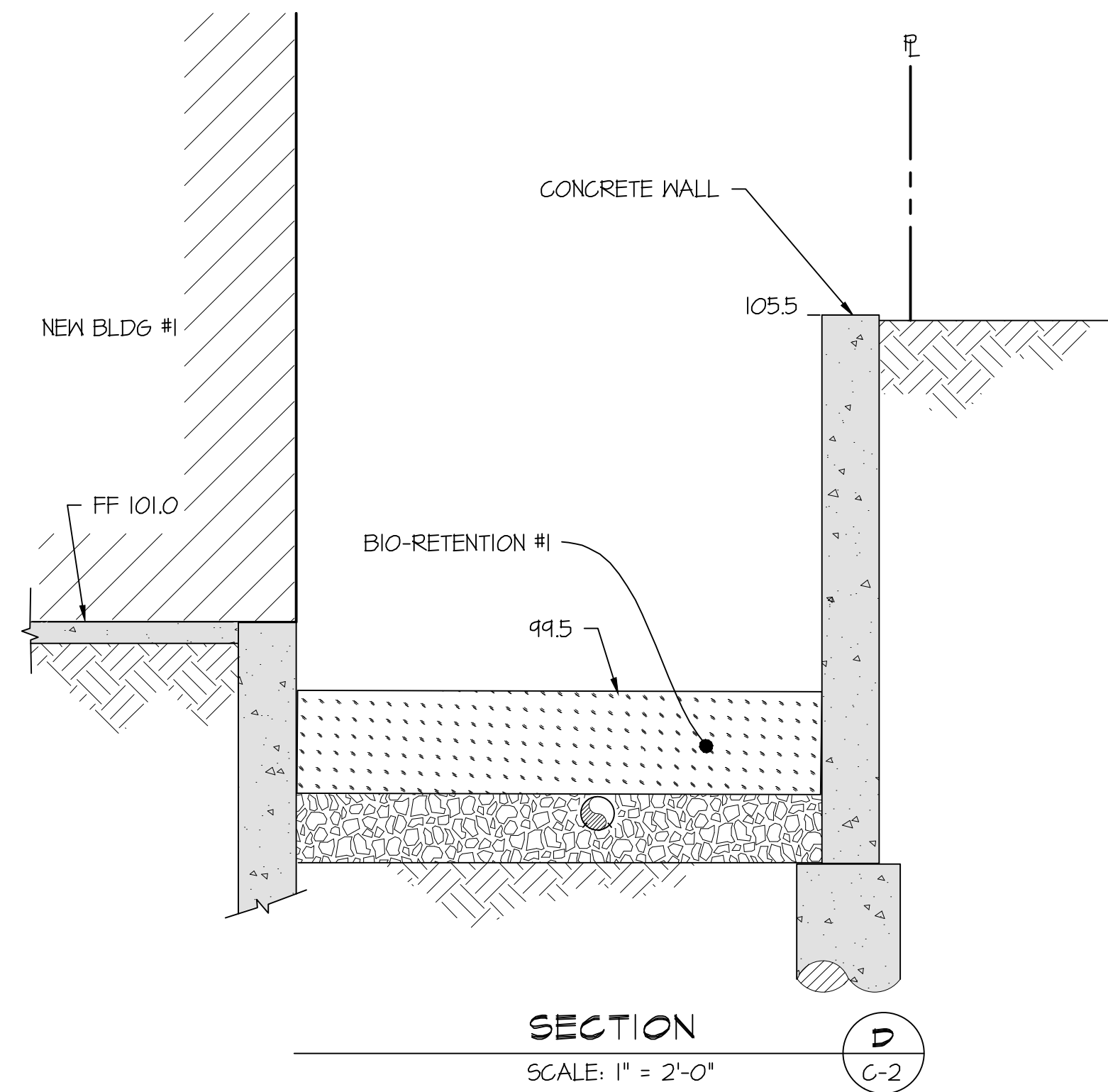
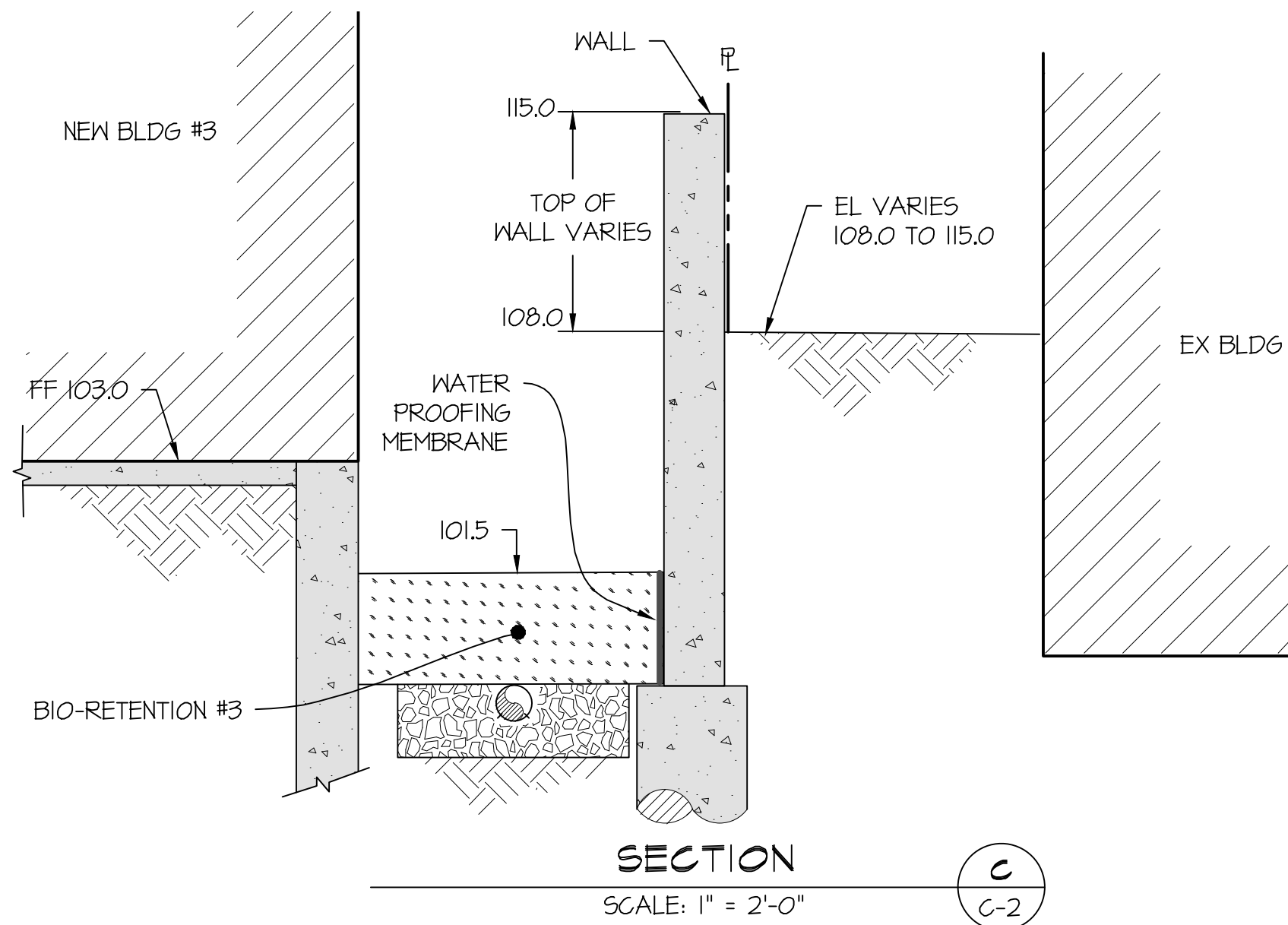
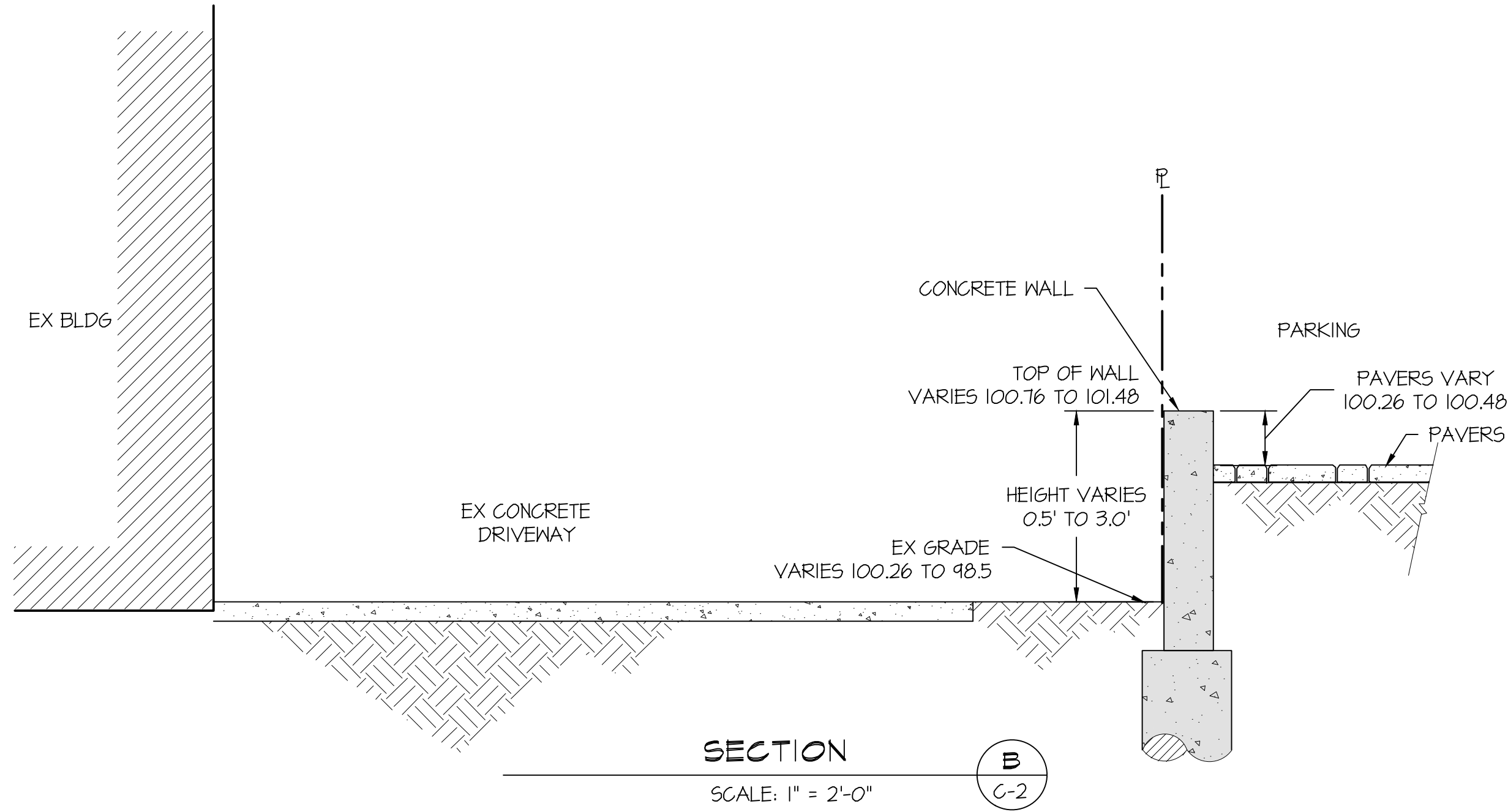
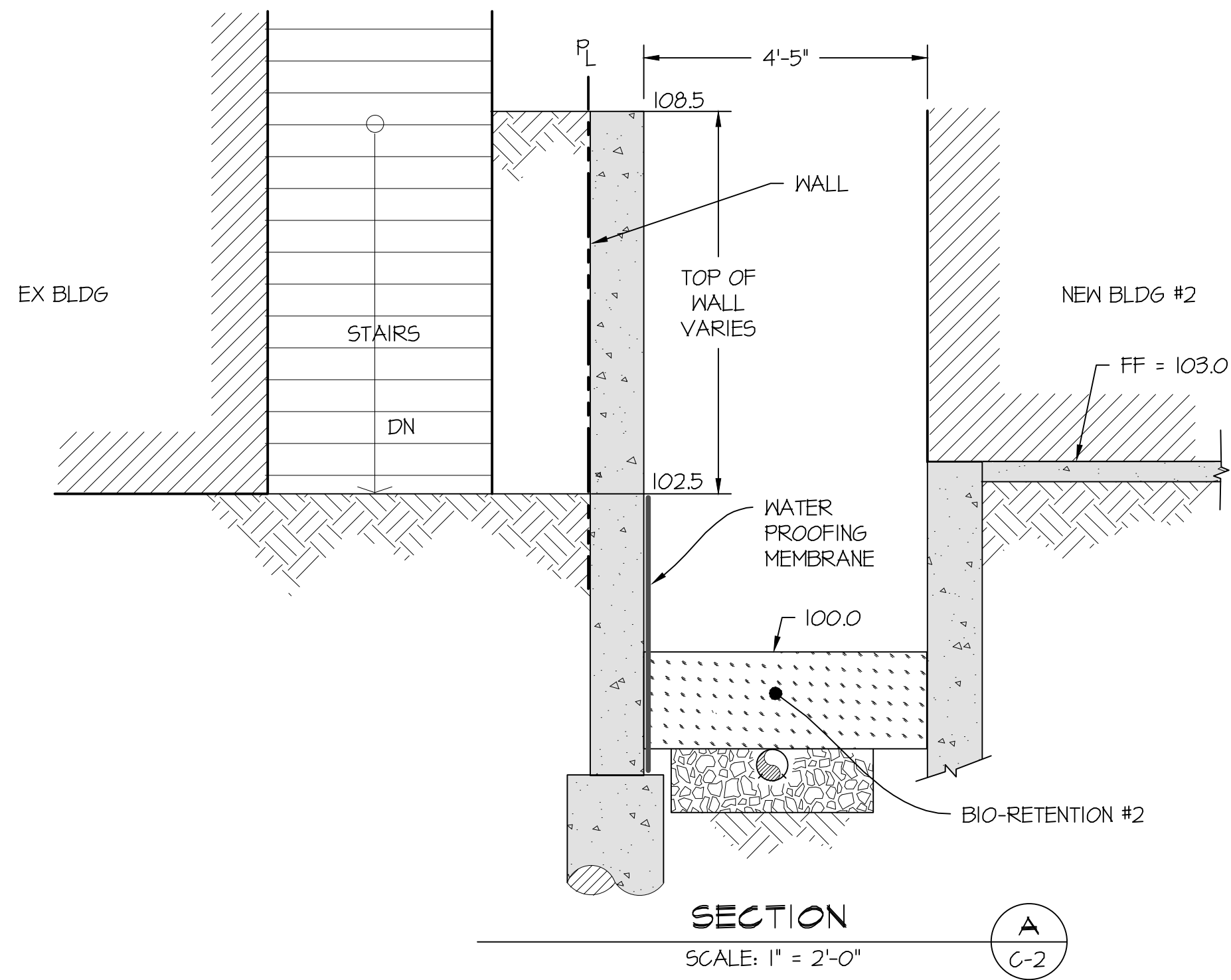
REVISIONS		
NO.	DATE	DESCRIPTION
1	1/22/21	ISSUED FOR REVIEW
2	11/8/21	REVISED PER COUNTY COMMENTS
3		
4		
5		

DESIGNED BY: G. DEARTH
DRAWN BY: E. HAYDEN
APPROVED BY:
SCALE: AS SHOWN
DATE: 1/28/2021
PROJECT NO. 662.001

STREET FRONTAGE IMPROVEMENTS

REVISION	1
SHEET NO.	5 OF 6
DRAWING	C-5

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BROOKDALE APARTMENTS
APN 011-074-04 & 011-074-05
55 BROOKDALE AVENUE
SAN RAFAEL, CALIFORNIA

REVISIONS		
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1	7/22/21	ISSUED FOR REVIEW
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4		
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DESIGNED BY: G. DEARTH
DRAWN BY: E. HAYDEN
APPROVED BY:
SCALE: AS SHOWN
DATE: 1/28/2021
PROJECT NO. 662.001

DETAILS

REVISION	1
SHEET NO.	6 OF 6
DRAWING	C-6