GENERAL NOTES

- 1. ALL CONSTRUCTION SHALL CONFORM TO THE CURRENT STANDARDS AND SPECIFICATIONS OF THE CITY OF LANSING.
- 2. THE CONTRACTOR SHALL NOTIFY "MISS DIG" AT LEAST THREE (3) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION.
- 3. THE CONTRACTOR SHALL NOTIFY THE CITY OF LANSING'S OFFICE OF ENGINEERING 48 HOURS PRIOR TO THE START OF CONSTRUCTION OF PUBLIC UTILITIES OR CONSTRUCTION IN THE STREET RIGHT-OF-WAY.
- 4. HANDICAPPED PARKING SPACES SHALL BE IDENTIFIED WITH THE INTERNATIONAL SYMBOL.
- 5. ACCESS TO A STRUCTURE SHALL BE PROVIDED FOR THE PHYSICALLY HANDICAPPED.
- 6. ONSITE PARKING SHALL BE PROVIDED FOR CONSTRUCTION WORKERS.
- 7. AN AS-BUILT PLANS SHALL BE SUBMITTED TO THE CITY OF LANSING PRIOR TO THE ISSUANCE OF AN OCCUPANCY PERMIT OR RELEASE OF SURETY'S BOND.
- 8. ALL POTENTIAL UTILITY CONFLICTS MUST BE PHYSICALLY DETERMINED PRIOR TO THE START OF CONSTRUCTION OF UTILITIES. A CITY OF LANSING INSPECTOR MUST BE
- 9. FIRE LANES SHALL BE DESIGNED AND CONSTRUCTED PER THE CITY OF LANSING STANDARDS.
- 10. FOUR-FOOT WIDE SIDEWALKS SHALL BE PROVIDED 2.5 FEET OFF OF THE PROPERTY LINE WITHIN THE RIGHTS-OF-WAY, UNLESS A SIDEWALK EASEMENT IS PROVIDED FOR A MEANDERING SIDEWALK OR AN ALTERNATIVE DESIGN IS APPROVED BY THE CITY. BARRIER-FREE RAMPS, PER THE CITY OF LANSING STANDARDS, SHALL BE PROVIDED ON SIDEWALKS AT ALL CURB CROSSINGS.
- 11. MECHANICAL UNITS, DUMPSTERS, AND TRASH COMPACTORS SHALL BE SCREENED IN ACCORDANCE WITH THE ZONING ORDINANCE.
- 12. ALL SIGNAGE CONTINGENT UPON APPROVAL BY THE CITY OF LANSING.
- 13. ALL ELECTRICAL TRANSMISSION, DISTRIBUTION, AND SERVICE LINES SHALL BE UNDERGROUND.
- 14. USES SHALL CONFORM IN OPERATION, LOCATION, AND CONSTRUCTION TO THE CITY OF LANSING STANDARDS FOR NOISE, SMOKE AND PARTICULATE MATTER, ODOROUS MATTER, FIRE OR EXPLOSIVE HAZARD MATERIAL, TOXIC AND NOXIOUS MATTER, VIBRATION, AND/OR OTHER PERFORMANCE STANDARDS.

PROJECT SCOPE

PROJECT STATEMENT:

THE PROPERTY IS LOCATED AT 500 BLOCK OF PENNSYLVANIA AVENUE, IN LANSING MICHIGAN 48906. THE 0.218-ACRE SITE IS ZONED R-MX MIXED RESIDENTIAL. THE PROPOSED QUADPLEX MULTIPLE FAMILY (TOWNHOUSE) CONDOMINIUM IS A PRINCIPAL PERMITTED USE. THE PROPOSED MULTIPLE FAMILY CONDOMINIUMS MUST COMPLY WITH THE REGULATIONS SPECIFIED IN CHAPTER 1244.12, R-MX MIXED RESIDENTIAL, AND BUT NOT LIMITED TO , THE FOLLOWING REGULATIONS:

•CHAPTER 1250 - GENERAL PROVISIONS •CHAPTER 1252 - LANDSCAPING

•CHAPTER 1254 - PARKING

THIS IS NOT A BROWNFIELD SITE AND STORM WATER WILL BE DISCHARGED ONSITE. THIS SITE IS SUBJECT TO THE CONDITIONS AND DEVELOPMENT LIMITATIONS OF LIGHT INDUSTRIAL SPECIFICATIONS.

COVER SHEET

INGHAM COUNTY LAND BANK HICKORY POINTE CONDOMINIUM'S

400 BLOCK S. PENNSYLVANIA LANSING, MI 48912

PROJECT SHEET INDEX

TITLE	SHEET
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EXISTING SITE LAYOUT	2
SURVEY	3
PROPOSED SITE PLAN	4
SITE PARKING PLAN	5
LANDSCAPE & LIGHTING PLAN	6
SESC/GRADING/DRAINAGE PLAN	7
UTILITIES	8
STORMWATER PLAN	9
STORMTECH DETAILS	10
CONSTRUCTION DETAILS	11
CONSTRUCTION DETAILS	12
ELEVATION	13
FLOOR PLAN	14

ADDITIONAL DOCUMENTS & REQUIREMENT

GEOTECHNICAL INVESTIGATION / SOIL REPORT

REPORT ENTITLED GEOTECHNICAL REPORT FOR INGHAM COUNTY LAND BANK, PREPARED BY PROFESSIONAL SERVICES INDUSTRY (PSI), PROJECT GEOTECHNICAL ENGINEER, IS PART OF THE CONSTRUCTION DOCUMENTS. ALL WORK MUST COMPLY WITH SOIL REPORT REQUIREMENTS & RECOMMENDATIONS, THE MICHIGAN BUILDING CODE, AND ALL OTHER APPLICABLE CODES & ENFORCED BY LOCAL JURISDICTION.

MICHIGAN ENERGY CODE COMPLIANCE

MICHIGAN ENERGY CODE COMPLIANCE SERVICE PROVIDED BY CUSTOM HOME ENERGY SERVICES-, PO BOX 237, BATH, MI 48808, DATED TBD, IS PART OF THE CONSTRUCTION DOCUMENTS. ALL WORK MUST COMPLY WITH ENERGY REPORT REQUIREMENTS & RECOMMENDATIONS, MICHIGAN ENERGY CODE, & ALL OTHER APPLICABLE CODES & ORDINANCES AS ADOPTED, AMENDED, & ENFORCED BY LOCAL JURISDICTION.

COORDINATE WITH STRUCTURAL ENGINEER

COORDINATE WITH ENGINEER TO PROVIDE REQUIRED NOTICE & TO SCHEDULE MANDATORY CONSTRUCTION OBSERVATION. PROVIDE ENGINEER WITH MINIMUM 48 HOURS ADVANCE NOTICE AND THE OPPORTUNITY TO BE PRESENT FOR ANY & ALL SITE VISITS & CONSTRUCTION OBSERVATION ATTENDED BY THE ENGINEER. SUBMIT ALL REQUESTS FOR INFORMATION TO ENGINEER, COPY ALL CORRESPONDENCE WITH PROJECT MANGER AND ALL OTHER PROFESSIONAL CONSULTANTS.

CONSTRUCTION OBSERVATION REQUIRED

GENERAL CONTRACTOR IS REQUIRED TO SCHEDULE & COORDINATE THE FOLLOWING MANDATORY CONSTRUCTION OBSERVATION SITE VISITS WITH ENGINEER PRESENT. PROVIDE NOTICE TO ENGINEER AT LEAST 48 HOURS PRIOR TO SUCH VISITS. PRIOR TO BEGINNING WORK, PROVIDE ENGINEER & OWNER WITH A CRITICAL PATH SCHEDULE SHOWING THE FOLLOWING CONSTRUCTION MILESTONES:

- 1. SITE VISIT MILESTONE
- 2. GRADING
- 3. STORM WATER/WASTE WATER PRE CONSTRUCTION SITE MEETING
- 4. COMPLETION OF STORM WATER (RAIN GARDEN) CONSTRUCTION
- 5. UTILITY PRE CONSTRUCTION SITE MEETING
- 6. COMPLETION OF STORM WATER CONSTRUCTION7. SOIL EROSION INSPECTION SITE MEETINGS AS NEEDED

PROJECT TEAM

OWNER: INGHAM COUNTY LAND BANK 3024 TURNER RD LANSING, MICHIGAN

ENGINEER:

C&A ENGINEERING, LLC 10722 CORKERY LN GRAND LEDGE, MI 48837 CAENGINEERLLC@CAENGINEERSLLC.COM 517-898-8152

PARCEL MAP



VICINITY MAP



AGENCY REFERRALS

ZONING PLANNING & ZONING 316 N CAPITAL AVE, SUITE D LANSING, MI 48933 PH: (517) 483-4066

EIRE LANSING FIRE DEPT. 316 N CAPITOL AVE, SUITE C LANSING, MI 48933 PH: (517) 483-4105

ROADWAY CITY OF LANSING 2700 PORT LANSING RD, LANSING, MI 48906 PH: (517) 335-3754 EROSION CONTROL
PUBLIC SERVICE
124 W. MICHIGAN AVENUE
7TH FLOOR CITY HALL
LANSING, MI 48933
PH: (517) 483-4455

ELECTRIC LANSING BWL 1232 HACO DR, LANSING, MI 48912 PH: (517) 702-6006

GAS CONSUMERS ENERGY 1 ENERGY PLAZA DR, JACKSON, MI 49201 PH: 800-805-0490

HALVAY ACTOR DE STATE DE STATE

EVISION TABLE
ISED BY DATE

LLC 10722 CORKERY LN GRAND LEDGE, MI 48837 P: 517.898.8152 E: www.caengineersllc.com

INGHAM COUNTY LAND BANK CKORY POINTE CONDOMINIUM' 400 BLOCK S. PENNSYLVANIA LANSING, MI 48912

COVER SHEET

OWNEK: INGHAM COUNTY LAND BANK 3024 TURNER RD LANSING, MICHIGAN

DATE:

02/13/2025

SCALE:

SHEET NO:

C5.1

SITE DATA

BUILDING HEIGHT:

PARKING:

PROJECT ADDRESS: 400 BLOCK OF PENNSYLVANIA AVE LANSING MI 48906

INGHAM COUNTY LAND BANK 3024 TURNER RD LANSING, MICHIGAN

PARCEL#: 33-01-01-15-376-021, 33-01-01-15-376-011, 33-01-01-15-376-031

LOTS 20 & 21 BLOCK 2 LANSING IMPROVEMENT COMPANYS ADD SPLIT/ COMBINED ON 11/14/2022 FROM 33-01-01-15-376-021, 33-01-01-15-376-011, 33-01-01-15-376-031 **PROJECT NARRATIVE**

ZONING: PROPOSED ZONING: LOT AREA: 0.218 ACRES± 4,679 SQ.FT. BLDG. AREA: STORIES: **CONSTRUCTION TYPE**: VB FIRE SPRINKLERS:

26'-4" FT

THE PROPERTY IS LOCATED AT 400 BLOCK OF PENNSYLVANIA AVENUE, IN LANSING MICHIGAN 48906. THE 0.218-ACRE SITE IS ZONED R-MX MIXED RESIDENTIAL. THE PROPOSED QUADPLEX MULTIPLE FAMILY (TOWNHOUSE) CONDOMINIUM IS A PRINCIPAL PERMITTED USE. THE PROPOSED MULTIPLE FAMILY CONDOMINIUMS MUST COMPLY WITH THE REGULATIONS SPECIFIED IN CHAPTER 1244.12, R-MX

PARKING PROVIDED: 8 SMAXED RESIDENTIAL, AND BUT NOT LIMITED TO, THE DIMENSIONS: 10' WFOLD WING REGULATIONS: *MINIMUM DRIVE AISLE: 24'
•CHAPTER 1250 - GENERAL PROVISIONS •CHAPTER 1252 - LANDSCAPING

•CHAPTER 1254 - PARKING

SITE REQUIREMENTS

THIS PROPERTY IS CURRENTLY ZONED "R-MX"

197	DUILDING IV	I-DOII40
A. Minimum Height	20'	2 Stories
B. Maximum Height:	45'	4 Stories
/b\ n	HIII DING DI	CEMENT
DAIS-10	BUILDING PLA	ACEMENT 20'
(b) E C. Front Setback D. Minimum Side	UILDING PLA	\$150 (\$10 Per 10)

C. Front Setback	20'	
D. Minimum Side Setback	5';, total of two side yards 15'	
E. Minimum Rear Setback		
	Efficiency: 1200 sq. ft.	
Minimum Lot Size	1-bdrm: 1300 sq. ft.,	
(per dwelling unit)	2 bdrm: 1500 sq. ft.,	
	3+ bdrms: 2200 sq. ft.	
F. Lot Width – min., max.	40' - 60'	
G. Lot Depth – min., max.	150' – 200'	
	Total Impervious Surfaces	
Maximum Lot	65%	
Coverage	Building Coverage 45%	

(c) PARKING		
Parking	See Chapter 1254 for parking standards. Parking permitted in rear or side yard. Property and Parking Lot Setback / Screening per Chapter 1252	
H. Garages	Rear yard or along alley	

STORMWATER

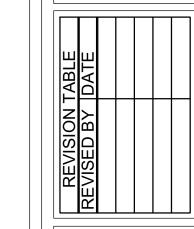
THE PROPERTY CURRENTLY HAS ACCESS TO WATER. ELECTRIC AND SANITARY SEWER SERVICES. THE SITE IS NOT CONNECTED TO ANY STORMWATER SEWER. THE PROPOSED NEW CONSTRUCTION, LAND DISTURBANCE AND ADDITION OF PAVEMENT WILL INCREASE RUNOFF FROM THE SITE, ALL STORMWATER WILL BE COLLECTED AND CONTAINED ON SITE (RAIN GARDEN) AND THEN DISCHARGED TO CITY STORMWATER SYSTEM.

UTILITY STATEMENT

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS PROVIDED BY SCCMUA. THE SURVEYOR AND/OR ENGINEER MAKES NO **GUARANTEES THAT THE UNDERGROUND UTILITIES** SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA EITHER IN SERVICE OR ABANDONED. THE SURVEYOR AND/OR ENGINEER FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR AND/OR ENGINEER HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.







18" TAPER 5' WIDE SIDEWALK 18" TAPER

COMMERCIAL DRIVE APPROACH DETAIL

ADA RAMP DETAIL

DATE:

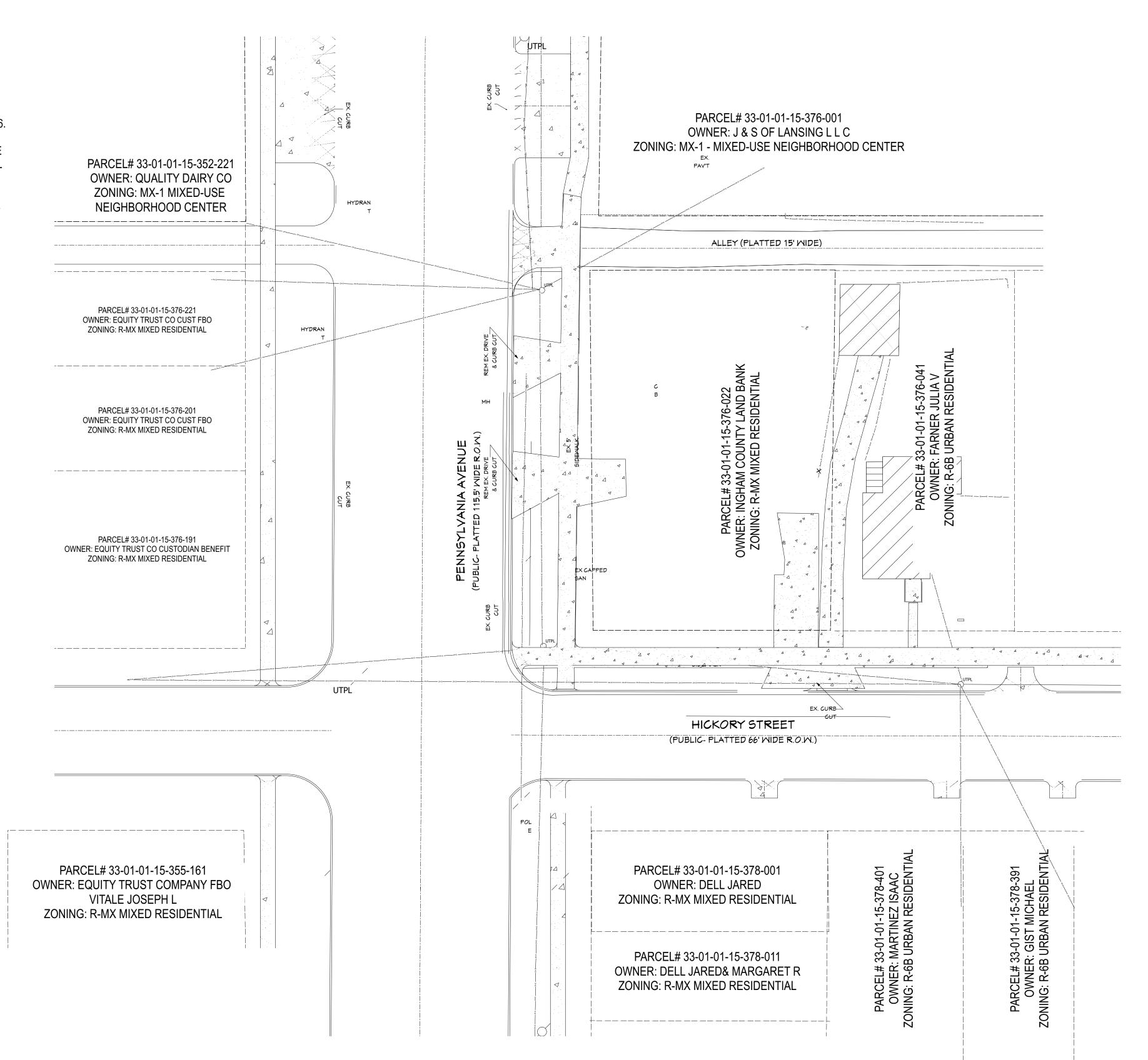
02/13/2025

SCALE:

1" = 20' SHEET NO:

C5.2







- POLE UTILITY EXISTING POLE UTILITY
- TRANSFORMER PAD MOUNTED TRANSFORMER - POLE MOUNTED
- - E-OH - CABLE OVERHEAD --- E-OH --- -- CABLE OVERHEAD - TO BE REMOVED

CABLE IN CONDUIT - DIRECTIONAL BORE

- —— FO ——— FIBER OPTIC #--- FIBER OPTIC - OUT OF SERVICE & FIBER OPTIC MARKER
- - c-oh - CABLE OVERHEAD & CABLE MARKER ◆ CABLE PEDESTAL

- TELEPHONE MANHOLE Φ TELEPHONE PEDESTAL NATURAL GAS
- # G # GAS LINE OUT OF SERVICE & MARKER ■ VALVE
- SANITARY SEWER
- ->#->#->#- SEWER OUT OF SERVICE ->-->--> SEWER - TO BE REMOVED
- ⊗ GATE VALVE AND BOX @ GATE VALVE IN WELL → IRRIGATION CONTROL VALVE ₹ IRRIGATION SPRINKLER HEAD ■ SERVICE METER SERVICE SHUTOFF WATER WELL ----- IRRIGATION ----- WATER MAIN # --- WATER MAIN - OUT OF SERVICE WATER MAIN - TO BE TAKEN OUT OF SERVICE *--- *--- WATER MAIN - TO BE REMOVED O STRUCTURE BOTTOM (DIA VARIES) UTILITY BOX

ASPHALT

- D WELL PARCEL LINE
- EASEMENT LINE π SIGN POST - DOUBLE T SIGN POST - SINGLE SIDEWALK CONCRETE
- METER

LOT & TOPOGRAPHIC SURVEY

"VACANT- S. PENNSYLVANIA AVE, LANSING, MI 48912"

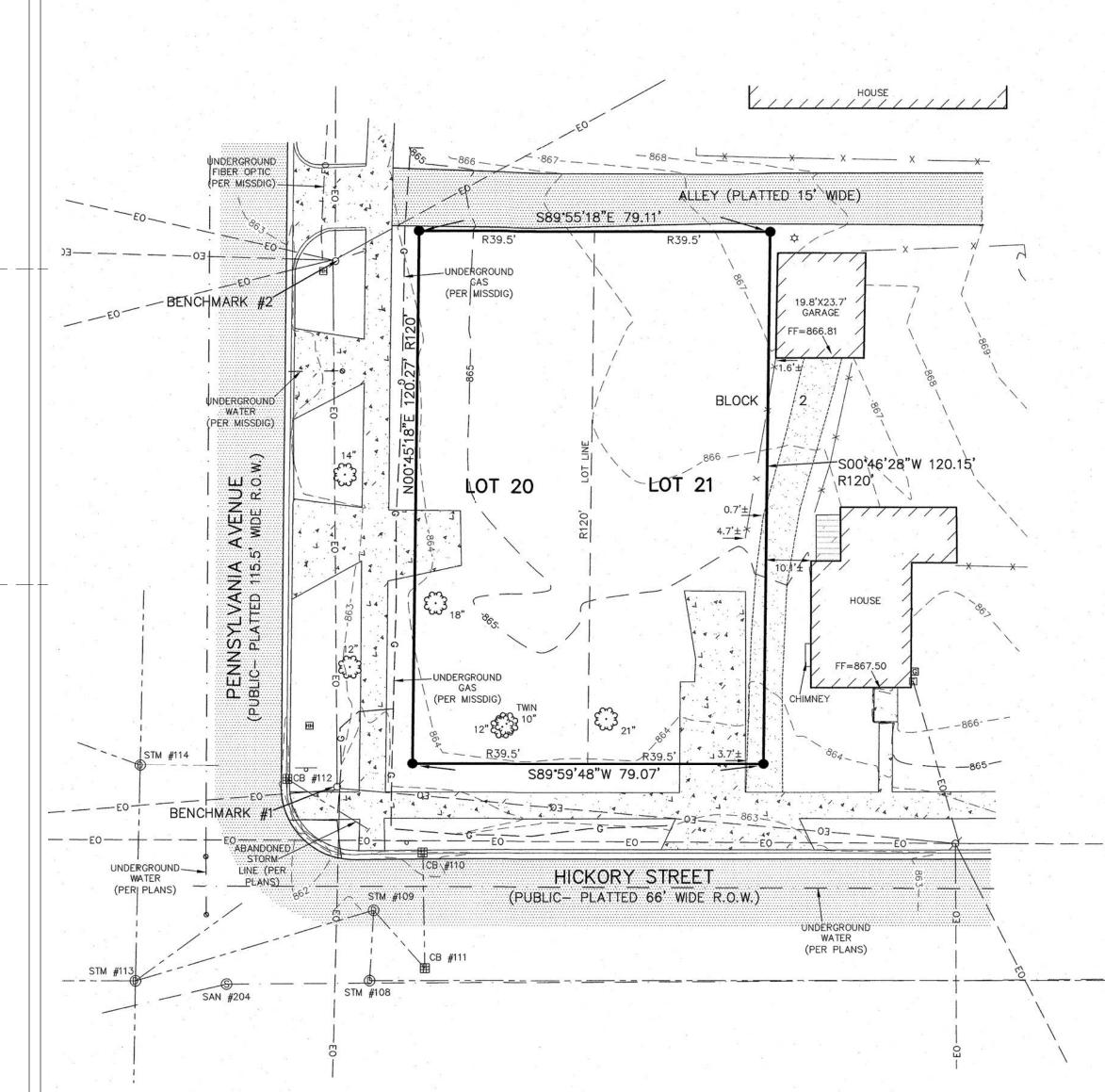
BEMENT ST BOOK B

LEGAL DESCRIPTION: (As provided)

TAX ID: 33-01-01-15-376-022 Lots 20 and 21, Block 2, Lansing Improvement Company's Addition, City of Lansing, Ingham County, Michigan, according to the recorded plat thereof, as recorded in Liber 2 of Plats, Page 14, Ingham County Records.

FOR: INGHAM COUNTY LAND BANK

PAV'T



performed in December 2

SURVEYOR'S NOTES:

1. This plan was made at the direction of the parties named hereon and is intended solely for their immediate use. Survey prepared from fieldwork performed in December 2023.

2. All bearings are Michigan State Plane South Zone grid bearings obtained from GPS observations using corrections obtained from the nearest National Geodetic Survey C.O.R.S. station.

3. All dimensions shown are as—measured unless otherwise noted.

4. All elevations are North American Vertical Datum of 1988 (NAVD88).

5. All dimensions are in feet and decimals thereof.

6. No building tie dimensions are to be used for establishing the property lines.

7. Easements, if any, not shown hereon.

8. By scaled map location and graphic plotting only, this property lies entirely within Flood Zone "X", areas outside the 0.2% annual chance floodplain, according to the National Flood Insurance Program, Flood Insurance Rate Map for the City of Lansing, Ingham County, Michigan, Community Panel No. 260090 0131 D, dated August 16, 2011.

9. Utility information as shown was obtained from available public records and from supporting field observations, where possible, and is subject to verification in the field by the appropriate authorities prior to use for construction. In addition, this parcel was marked by MISS DIG Ticket No. 2023120401961. MISS DIG positive response shows markings were completed by AT&T Telephone for underground telephone, Consumers Energy Gas for underground gas, Lansing City Public Service for sanitary sewer and storm sewer, and Metro Fibernet, LLC for fiber optics. Utility markings actually found on site by the field crew were: gas, water, and fiber optic lines.

10. Wetlands, if any, not shown hereon.

SEWER INVENTORIES

STORM MANHOLE #107 RIM - 868.38 12" RCP NE - 865.10 12" RCP W - 862.34

STORM MANHOLE #108 RIM - 861.87 12" RCP N - 855.77 12" RCP E - 856.03

STORM MANHOLE #109 RIM - 861.90 12" RCP S - 854.86 12" RCP SW - 854.58 12" RCP SE - 857.82

CATCH BASIN #110 RIM - 861.67 12" RCP S - 859.12

CATCH BASIN #111 RIM - 861.40 12" RCP N - 858.22 12" RCP NW - 858.16

CATCH BASIN #112 (ABANDONED PER PLANS) RIM - 861.80 12" RCP SE - 858.24

STORM MANHOLE #113 RIM - 861.76 12" RCP NE - 855.00 30" RCP S - 851.50 12" RCP E - 853.92 30" RCP N - 851.66 12" RCP W - 854.24

STORM MANHOLE #114 RIM - 861.86 30" RCP S - 852.12 30" RCP N - 852.16 12" RCP NW - 854.68 12" RCP E - 854.57

SANITARY MANHOLE #203 RIM - 869.52 8" PVC E - 861.56 8" PVC W - 861.53

SANITARY MANHOLE #204 RIM - 861.76 8" PVC E - 850.04

8" PVC SW - 849.77

BENCHMARKS

ERICK

ROY FRIESTROM

PROFESSIONA

ERICK R. FRIESTROM

PROFESSIONAL SURVEYOR NO. 53497

SURVEYOR

BENCHMARK #1 ELEV. = 863.57 (NAVD88) SET PK NAIL IN WEST SIDE OF POWER POLE, NORTHEAST QUADRANT OF PENNSYLVANIA AND HICKORY, $\pm 10^{\circ}$ EAST OF EAST BACK OF CURB OF PENNSYLVANIA

BENCHMARK #2 ELEV. = 865.11 (NAVD88)
SET PK NAIL IN NORTH SIDE OF POWER POLE, SOUTHEAST
QUADRANT OF ALLEY AND PENNSYLVANIA, ±9' EAST OF EAST
BACK OF CURB OF PENNSYLVANIA

	REVISIONS	COMMENTS	KEBS, INC	ENGINEERING AND LAND SURVEYING
	01/11/2024	ORIGINAL	A STY	OAD, HASLETT, MI 48840
	2. 17	10	1	014 FAX 517-339-8047 W.KEBS.COM
			Marshall Office -	Ph. 269-781-9800
4	8 3		DRAWN BY AN	SECTION 15, T4N, R2W
/			FIELD WORK BY NW	JOB NUMBER:
	2 2		SHEET 1 OF 1	102095.LOT

LOLIND

× × = FENCE
= ASPHALT
= CONCRETE
= DECK

= GRAVEL
= EXISTING CONTOUR ELEVATION

____ = SANITARY SEWER ____ = STORM SEWER ___ = WATER LINE

— — G— — = GAS LINE — — EO— — = OVERHEAD WIRES — — FO— — = UNDERGROUND FIBER OPTIC

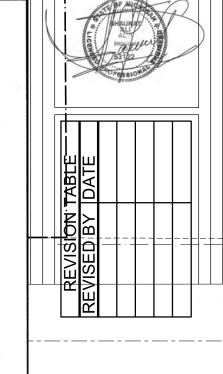
= DECIDUOUS TREE

= LIGHT POLE

= HANDHOLE

= ELECTRIC METER

POI



C & A ENGINEER

LLC

10722 CORKERY LN

GRAND LEDGE, MI 48837
P: 517.898.8152 E: www.caengineerslic.com

INGHAM COUNTY LAND BANK ICKORY POINTE CONDOMINIUM'S 400 BLOCK S. PENNSYLVANIA LANSING, MI 48912

HOUS!

INGHAM COUNTY LAND BANK
3024 TURNER RD LANSING, MICHIGAN

DATE:

02/13/2025

SCALE:

SHEET NO: 8" SAN

5.

PROPOSED SITE PLAN

SQ.FT.

HICKORY STREET (PUBLIC- PLATTED 66' WIDE R.O.W.)





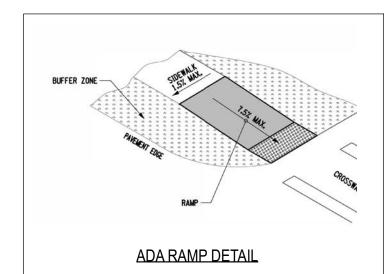


VICINITY MAP

TITLE	SHEET
COVER SHEET	1
EXISTING SITE LAYOUT	2
SURVEY	3
PROPOSED SITE PLAN	4
SITE PARKING PLAN	5
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PROJECT SHEET INDEX

18" TAPER 5' WIDE SIDEWALK 18" TAPER COMMERCIAL DRIVE APPROACH DETAIL



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FLOOR PLAN	14

LEGEND

SITE HAS ACCESS TO BOTH WATER AND SEWER

CITY OF LANSING NOTES

THE CURRENT ZONING AS EVIDENCED BY THE CITY IS "R-MX" PER OBSERVATION, THIS SITE IS EITHER CURRENTLY HAS ACCESS TO THE FOLLOWING PUBLIC UTILITIES; SANITARY SEWER GAS, ELECTRIC, AND TELEPHONE. EITHER LOCATED ADJACENT TO THE SUBJECT SITE OR WITHIN PUBLIC

REMOVED AND REPLACED BY OWNER. ALL EXISTING SIDEWALK ON THE

DETAILS SPECIFIED IN THE PLANS AND THE CITY OF LANSING STANDARDS

CURB AND GUTTER, DRIVE APPROACHES AND SIDEWALKS.

THE CONTRACTOR SHALL OBTAIN A CITY PERMIT FOR ALL ROAD CUTS WHICH WILL BE BACK FILLED PER CITY STANDARDS TO THE BASE COURSE COMPACTED

CONTRACTOR SHALL OBTAIN CITY PERMIT FOR ALL CONCRETE WORK INCLUDING

THE CONTRACTOR MUST CONTACT THE CITY OF LANSING, TO SECURE THE REQUIRED PERMITS AND BONDS PRIOR TO BEGINNING CONSTRUCTION. CONTRACTOR MUST FOLLOW ALL REQUIREMENTS IN THE PERMIT, UTILIZING MAINTAINING TRAFFIC TYPICALS, REQUIRED AND THE PROPER CONSTRUCTION

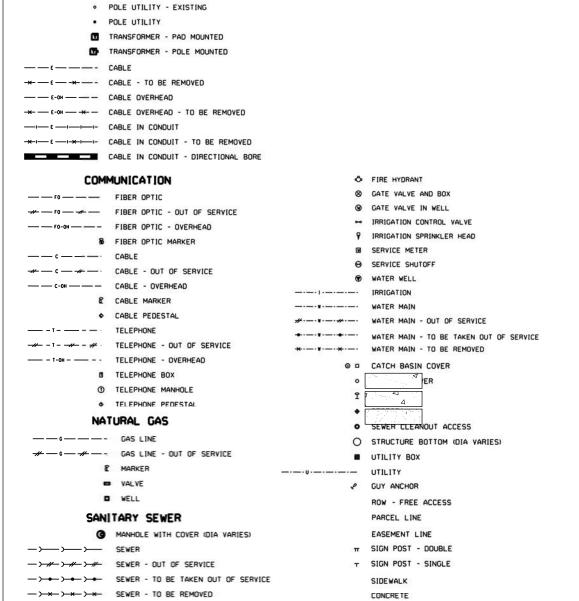
PROPOSED SITE DETERMINED TO NOT BE ADA COMPLIANT SHALL BE REMOVED AND REPLACED BY OWNER. SIDEWALK REPLACEMENT SHALL BE ACCORDING TO

ENGINEERS NOTES:

RIGHT-OF-WAY.

FINISHED GRADE.

TRAFFIC SIGNING.



ASPHALT

UTILITY STATEMENT

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS PROVIDED BY KEBS. THE SURVEYOR AND/OR ENGINEER MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR AND/OR ENGINEER FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR AND/OR ENGINEER HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.

HYDRAN

SITE PLAN

DATE:

02/13/2025

SCALE: 1" = 20'

SHEET NO:

CODED NOTES

SHEET NOTES

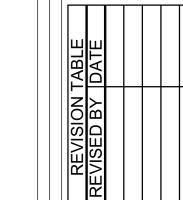
RESPONSIBILITY.

CO-OWNERS WILL UTILIZE CITY TRASH/DUMPSTER SERVICE.

SITE PARKING PLAN







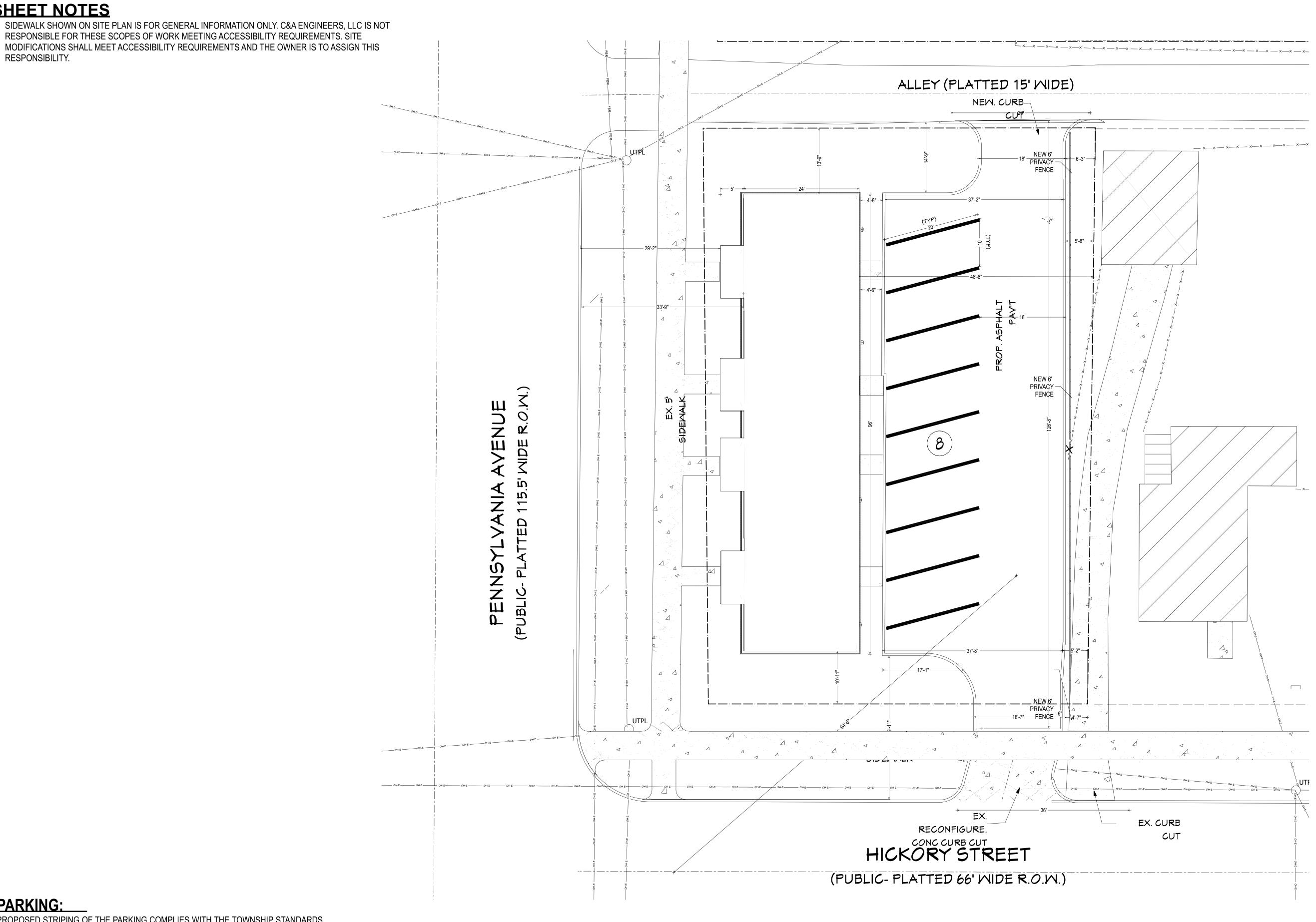
DATE:

02/13/2025

SCALE:

SHEET NO:

1" = 10'



PARKING:

PROPOSED STRIPING OF THE PARKING COMPLIES WITH THE TOWNSHIP STANDARDS FOR ZONING "R-MX MIXED RESIDENTIAL"

Multiple-Family dwellings	One (1) space per each efficiency. One and a half (1.5) spaces per
	1 bedroom dwelling unit. Two (2) spaces per each unit with 2 or
	more bedroom.

*PARKING PROVIDED: 8 SPACES *DIMENSIONS: 10' W X 20' L

LIGHTING NOTES:

THE BUILDINGS WILL HAVE EIGHT (8) LIGHTS ON THE BUILDING (ONE (1) AT EACH FRONT AND REAR DOOR). ALL PROPOSED LIGHTS ARE 1200 LUMENS

LANDSCAPE & LIGHTING PLAN





REVISION TABLE
REVISED BY DATE

& A ENGINEERS,
LLC
10722 CORKERY LN
GRAND LEDGE, MI 48837
517.898.8152 E: www.caengineersllc.com

INGHAM COUNTY LAND BANK HICKORY POINTE CONDOMINIUM'S 400 BLOCK S. PENNSYLVANIA LANSING, MI 48912

_ANDSCAPE & LIGHTING PLAN

INGHAM COUNTY LAND BANK 3024 TURNER RD LANSING, MICHIGAN

DATE:

02/13/2025

SCALE:

SHEET NO:

1" = 15'

C.3

LANDSCAPE NOTES

PLANT MATERIAL SIZES AND SPACING

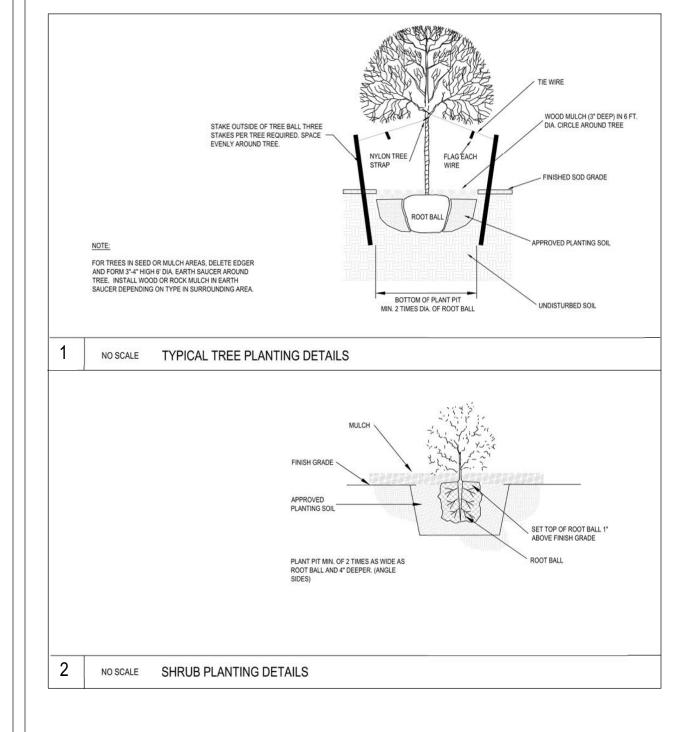
- A) TREES AND WOODY SHRUBS SHALL NOT BE PLACED CLOSER THAN THREE (3) FEET TO THE FENCE LINE OR PROPERTY LINE AS MEASURED FROM THE CENTER OF ROOT BALL. BRANCHES OF TREES MAY EXTEND OVER PROPERTY LINE BUT SHRUBS MUST BE PROPERLY TRIMMED AT THE PROPERTY LINE. ADJACENT PROPERTY OWNERS RESERVE THE RIGHT TO TRIM BRANCHES OF VEGETATION EXTENDING ONTO THEIR PROPERTY.
- B) EVERGREEN TREES SHALL HAVE A MINIMUM STARTING SIZE OF AT LEAST FIVE (5) FEET IN HEIGHT.
- C) DECIDUOUS TREES SHALL HAVE A MINIMUM STARTING SIZE OF AT LEAST TWO CALIPER INCHES.
- D) SHRUBS SHALL HAVE A MINIMUM STARTING SIZE OF AT LEAST 24 INCHES IN HEIGHT AND SPREAD AND SPACED A DISTANCE APART EQUAL TO OR LESS THAN 75 PERCENT OF THE SHRUB'S MATURE SPREAD DIAMETER.

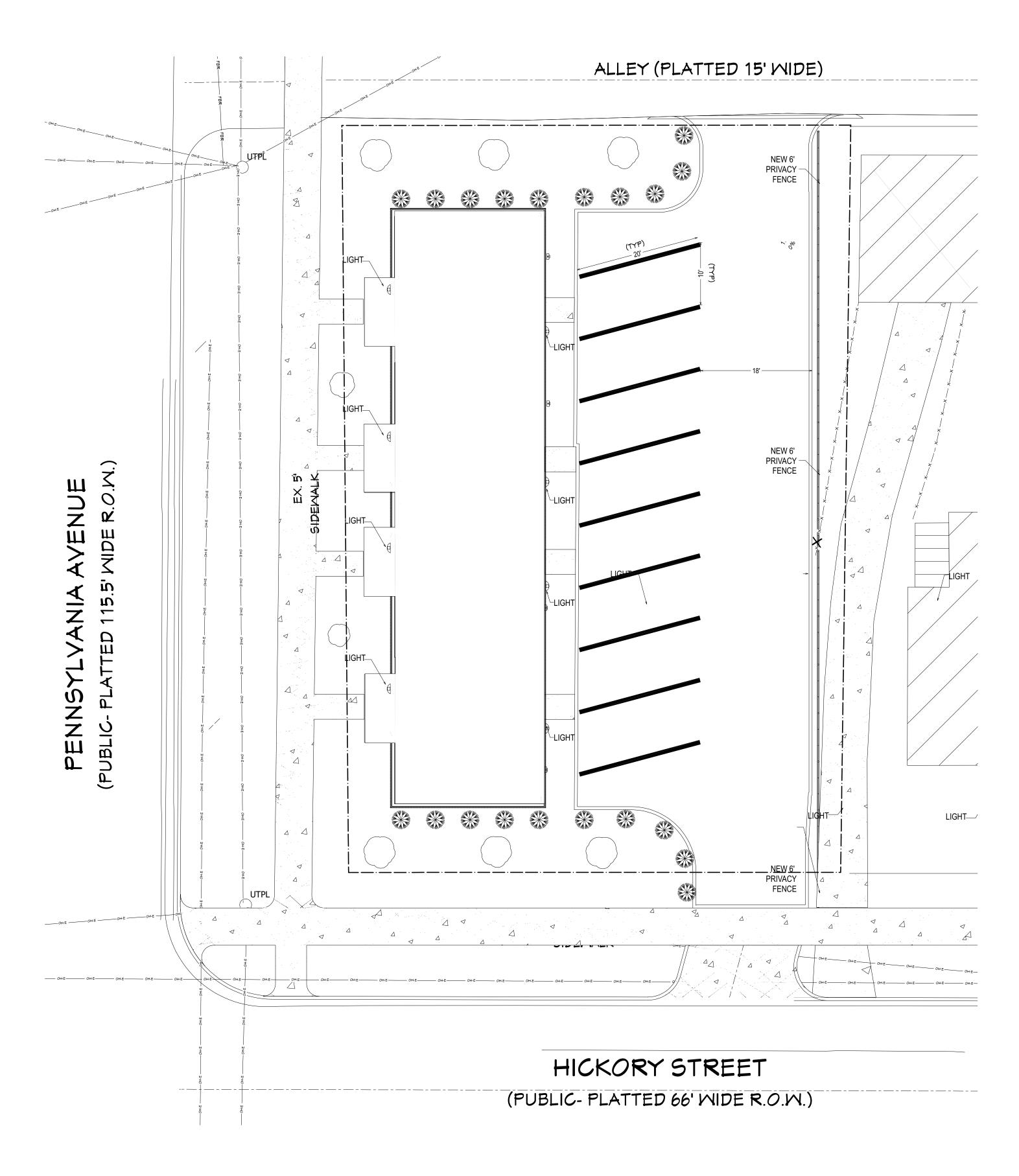
SPECIES

- A) MIXING OF SPECIES. THE OVERALL LANDSCAPE PLAN SHALL NOT CONTAIN MORE THAN 33 PERCENT OF ANY ONE PLANT SPECIES. THE USE OF TREES NATIVE TO THE AREA, AND MIXTURE OF TREES FROM THE SAME SPECIES ASSOCIATION, IS ENCOURAGED IN ALL LANDSCAPED AREA.
- C) THE USE OF NATIVE VEGETATION SPECIES WITH DEEP ROOTS IN RAIN GARDENS, BIOSWALES, BUFFER AREAS, AND OTHER FORMS OF NATURALIZED LANDSCAPING TO ACCOMPLISH THE GOAL OF STORMWATER RETENTION AND FILTRATION IS ENCOURAGED.
- E) PROHIBITED SPECIES. SPECIES DEEMED INVASIVE BY THE STATE OF MICHIGAN OR MICHIGAN STATE UNIVERSITY WILL BE HEAVILY DISFAVORED DURING LANDSCAPE PLAN REVIEW. SUCH INVASIVE SPECIES MAY BE REJECTED IN THE DISCRETION OF THE ZONING ADMINISTRATOR.

	PLANT SCHEDULE				
NUMBER	QTY	TY COMMON NAMES SCIENTIFIC NAME		2D SYMBOL	
P01	20	ENGLISH COMMON BOXWOOD	BUXUS SEMPERVIRENS		
P03	4	WHITE OAK, CHARTER OAK	QUERCUS ALBA		
P04	2	NORTHERN RED OAK, EASTERN RED OAK, MOUNTAIN RED OAK, GRAY OAK	QUERCUS RUBRA, QUERCUS BOREALIS, QUERCUS MAXIMA		
P05	2	PAPER BIRCH, CANOE BIRCH	BETULA PAPYRIFERA		

		ELECTRICAL SCHEDULE		
NUMBER	QTY	DESCRIPTION	2D SYMBOL	LUMEN
E01	16	BOX SCONCE VERTICAL	11	1200





SOIL EROSION CONTROL MEASURES SHALL BE INSPECTED BY A CERTIFIED STORM WATER OPERATOR ON A WEEKLY BASIS OR WITHIN 24 HOURS OF A PRECIPITATION EVENT RESULTING IN ONE-HALF INCH OR MORE OF RAINFALL. THE OPERATOR MUST KEEP A WRITTEN LOG OF ALL INSPECTIONS AND COMPLETED REPORTS SHALL BE KEPT ON FILE AT THE CONSTRUCTION SITE. ALL REQUIRED MAINTENANCE SHALL BE PROMPTLY PROVIDED.

ALL DIRT AND MUD TRACKED ONTO ROADS DUE TO CONSTRUCTION BE REMOVED ON A DAILY BASIS BY THE CONTRACTOR.

SHOULD DUST BECOME A PROBLEM AT THE SITE, THE CONTRACTOR SHALL PROVIDE WATERING OR OTHER METHOD OF DUST CONTROL ACCEPTABLE TO THE

TEMPORARY STONE ACCESS DRIVE:

CITY OF LANSING PUBLIC WORKS DEPARTMENT.

1 CRUSHED LIMESTONE BASE SHALL BE PLACED ON A GEOTEXTILE LIMESTONE BASE, GEOTEXTILE FILTER CLOTH OR APPROVED ALTERNATIVE. 2 ADDITIONAL LAYERS OF STONE OR CRUSHED LIMESTONE BASE SHALL BE ADDED

IN LAYERS AND COMPACTED. 3 STEPS SHALL BE TAKEN TO REPAIR IF RUTS OR POOLING WATER APPEAR.

1 BUILT UP SEDIMENT SHALL BE REMOVED WHEN SEDIMENT ACCUMULATES TO 1/3 TO 1/2 OF THE HEIGHT OF THE SILT FENCE.

2 IF SILT FABRIC DECOMPOSES OR BECOMES INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USEABLE LIFE, AND THE BARRIER IS STILL REQUIRED, THE FABRIC SHALL BE PROMPTLY REPLACED.

INLET FILTERS:

FILTER SHALL BE REPLACED.

1 INLET FILTERS SHALL BE INSPECTED WEEKLY UNDER, WITHIN 24 HOURS OF RAINFALL AND WITHIN 24 HOURS OF RAINFALL DAILY DURING PROLONGED RAIN 2 BUILT-UP SEDIMENT AND DEBRIS SHALL BE REMOVED PROMPTLY. 3 IF INLET FILTER DECOMPOSES OR BECOMES INEFFECTIVE PRIOR TO END OF THE EXPECTED USEABLE LIFE AND THE BARRIER IS STILL REQUIRED, INLET

4 DEBRIS BAGS IN THE PUBLIC ROW ARE TO BE NON-BLACK IN COLOR

GENERAL SOIL EROSION CONTROL NOTES:

THE CONTRACTOR SHALL CONFORM TO PART 91 OF ACT 451 OF THE PUBLIC ACTS OF 1994: EROSION AND SEDIMENT CONTROL OF RUNOFF DURING CONSTRUCTION (AS AMENDED) AND CURRENT LOCAL ORDINANCES FOR EROSION AND SEDIMENTATION CONTROL.

PRIOR TO ANY EARTH CHANGE, THE DEVELOPER SHALL SUBMIT A DETAILED EROSION CONTROL PLAN. COMPLETED APPLICATION AND CHECKLIST FORMS. PAY ALL FEES AND POST AN EROSION CONTROL PERFORMANCE BOND. AS REQUIRED.

CONSTRUCTION OPERATION SHALL BE SCHEDULED AND PERFORMED SO THAT PREVENTATIVE SOIL. EROSION CONTROL MEASURES ARE IN PLACE PRIOR TO EXCAVATION IN CRITICAL AREAS AND TEMPORARY STABILIZATION MEASURES ARE IN PLACE IMMEDIATELY FOLLOWING BACKFILLING OPERATIONS.

SPECIAL PRECAUTIONS WILL BE TAKEN IN THE USE OF CONSTRUCTION EQUIPMENT TO PREVENT SITUATIONS THAT PROMOTE EROSION.

CLEANUP WILL BE DONE IN A MANNER TO ENSURE THAT EROSION CONTROL MEASURES ARE NOT DISTURBED.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT FOR STORM WATER DISCHARGE FROM THE CONSTRUCTION ACTIVITIES IS REQUIRED PRIOR TO ANY EARTH CHANGE.

THE CONTRACTOR IS REQUIRED TO KEEP A COPY OF THE APPROVED SOIL EROSION AND SEDIMENT CONTROL PLAN AND PERMIT AT THE CONSTRUCTION SITE.

ALL SOIL EROSION CONTROL PRACTICES TO BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCE, OR IN THEIR PROPER SEQUENCE, AND MAINTAINED UNTIL SUCH MEASURES ARE PERMANENTLY STABILIZED AS DETERMINED BY THE SOIL EROSION INSPECTOR.

DURING CONSTRUCTION, ANY ADDITIONAL CONTROL MEASURES AS DEEMED NECESSARY TO PREVENT EROSION OR CONTROL SEDIMENT BEYOND THOSE MEASURES SHOWN ON THE APPROVED PLANS SHALL BE INSTALLED OR EMPLOYED AT THE DIRECTION OF THE LOCAL JURISDICTION OR THE SOIL EROSION INSPECTOR.

ALL DISTURBED AREAS SHALL BE TOP SOILED, SEEDED, AND FERTILIZED WITHIN FIVE (5) DAYS AFTER FINAL GRADING. MULCH TO BE USED AS NECESSARY FOR PROTECTION UNTIL PERMANENT VEGETATION IS ESTABLISHED.

DEWATERING MAY BE REQUIRED. IF REQUIRED, CONTRACTOR SHALL ENSURE THAT DEWATERING DISCHARGE SHALL BE FREE OF ANY SEDIMENTATION PRIOR TO LEAVING THE SITE. IF USING A FILTER BAG, IT SHOULD BE PLACED ON FLAT GROUND TO ENSURE EFFICIENCY. THE FILTER BAG SHOULD BE LOCATED A SUFFICIENT DISTANCE FROM THE EXISTING WATERCOURSE OR WETLAND TO ALLOW PROPER SETTLING OR FILTERING THROUGH NATURAL VEGETATION. DEWATERING DISCHARGE SHALL BE MONITORED FOR ANY EROSIVE CONDITIONS. IF EROSION OCCURS, DEWATERING OPERATIONS MUST CEASE, AND THE ERODED AREA MUST BE STABILIZED IMMEDIATELY, AND MAY RESUME ONLY AFTER STABILIZATION IS COMPLETE.

ANY TEMPORARY SOILS STOCKPILE SHALL OCCUR WITHIN THE LIMITS OF THE SILT FENCE. STOCKPILES TO BE GRADED TO A MAXIMUM OF 3:1 SIDE SLOPE.

A CONCRETE WASHOUT AREA SHALL BE DESIGNATED AND UTILIZED AS NECESSARY.

SEQUENCE OF CONSTRUCTION:

1. HOLD A SESC PRE-GRADING MEETING - JULY. 2024.

3. CLEAR AND EXCAVATE SITE TO SUBGRADE - AUG. 2024.

11. REMOVE ALL TEMPORARY SESC MEASURES. - NOV. 2025.

5. CONSTRUCT UNDERGROUND UTILITIES - OCT. 2024.

8. CONTINUE BUILDING CONSTRUCTION - OCT. 2024

2. INSTALL TRACKING MAT, ALL PERIMETER SESC MEASURES - AUG. 2024.

4. INSTALL BUILDING FOOTINGS & FOUNDATIONS IN ACCORDANCE WITH PERMIT - AUG. 2024.

6. MAINTAIN SESC MEASURES, INCLUDING CATCH BASINS AND TRACKING MAT - AS NEEDED.

9. FINISH GRADE, REDISTRIBUTE TOP SOIL, SEED AND MULCH ALL DISTURBED AREAS - SEPT. 2025

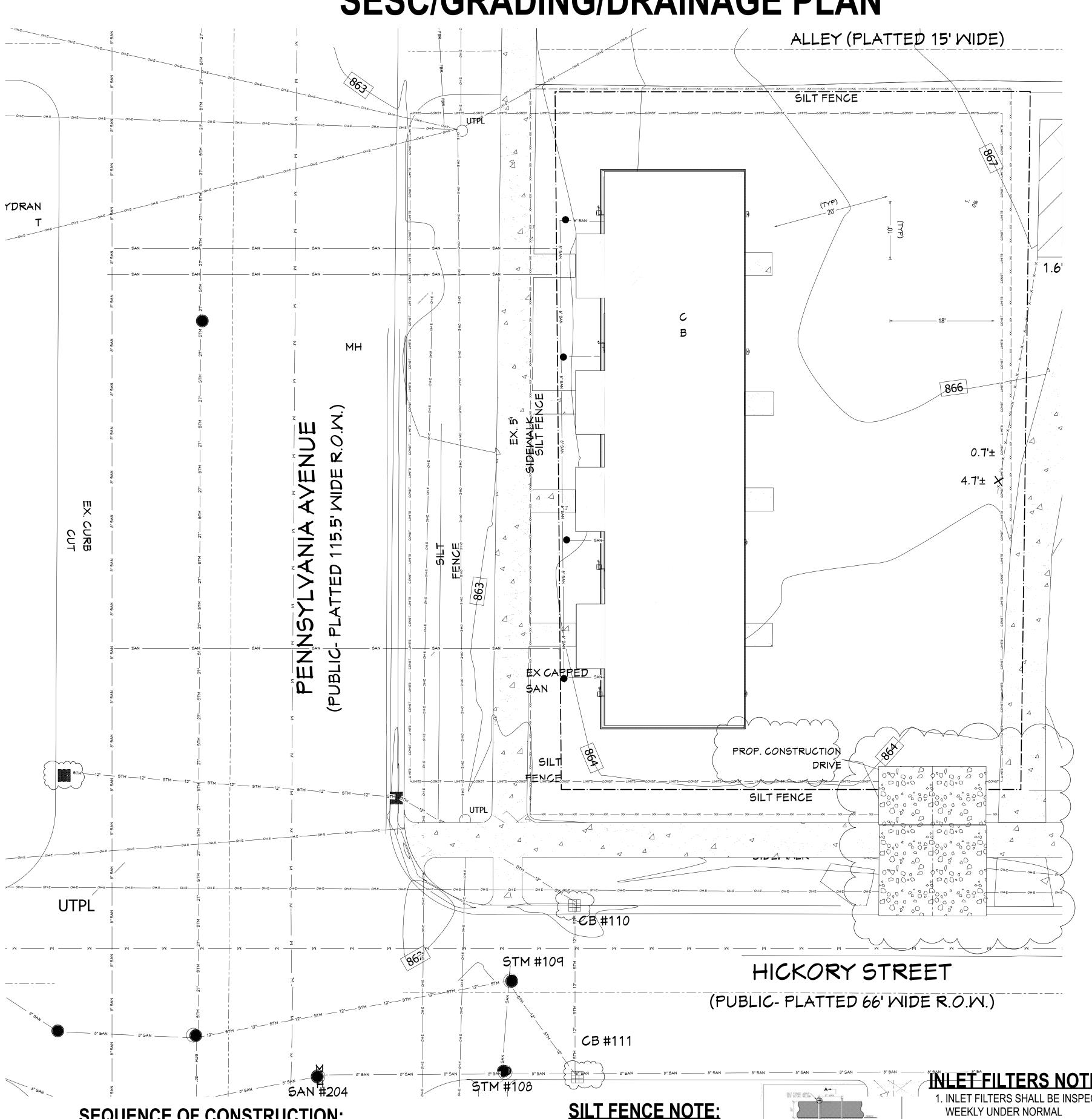
10. ENSURE ALL PERMANENT CONTROL MEASURES ARE INSTALLED AND FUNCTIONING.- OCT. 2025.

7. BRING ASPHALT PAV'T TO SUBBASE GRADE AND PAV'T LEVEL COURSE - JAN 2025.

GRADING SHALL BE DONE AS TO NOT DISRUPT THE STORM WATER FROM ADJACENT PROPERTIES.

THE CONTRACTOR SHALL MAINTAIN ALL TEMPORARY AND PERMANENT CONTROL MEASURES DURING THE DURATION OF CONSTRUCTION.

SESC/GRADING/DRAINAGE PLAN



1. BUILT UP SEDIMENT SHALL BE

REMOVED WHEN SEDIMENT

HEIGHT OF THE SILT FENCE.

THE END OF THE EXPECTED

BE PROMPTLY REPLACED.

ACCESS.

2. IF SILT FABRIC DECOMPOSES OR

BECOMES INEFFECTIVE PRIOR TO

USEABLE LIFE, AND THE BARRIER IS

3. SILT FENCE SHALL NOT CROSS SITE

STILL REQUIRED. THE FABRIC SHALL

ACCUMULATES TO 1/3 TO 1/2 OF THE

SECTION A-A

EROSION CONTROL SILT FENCE

FABRIC TO BE WRAPPI AROUND FENCE POST

ALL SOIL AND MATERIAL REMOVED FROM THE SITE SHALL BE DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REQUIREMENTS. ANY GROUNDWATER DE-WATERING PRACTICES SHALL BE PERFORMED UNDER THE SUPERVISION OF A QUALIFIED PROFESSIONAL. THE CONTRACTOR IS REQUIRED TO OBTAIN ALL NECESSARY PERMITS FOR THE DISCHARGE OF DE-WATERED GROUNDWATER. ALL SOIL IMPORTED TO THE SITE SHALL BE CERTIFIED CLEAN FILL. CONTRACTOR SHALL MAINTAIN RECORDS OF ALL FILL MATERIALS BROUGHT TO THE SITE.

THE CONTRACTOR IS REQUIRED TO PROVIDE TEMPORARY AND/OR PERMANENT SHORING WHERE REQUIRED DURING EXCAVATION ACTIVITIES, INCLUDING BUT NOT LIMITED TO UTILITY TRENCHES, TO ENSURE THE STRUCTURAL INTEGRITY OF NEARBY STRUCTURES AND STABILITY OF THE SURROUNDING

PROPOSED TOP OF CURB ELEVATIONS ARE GENERALLY 4 INCHES TO 7 INCHES ABOVE EXISTING GRADES UNLESS OTHERWISE NOTED. THE CONTRACTOR WILL SUPPLY ALL STAKEOUT CURB GRADE SHEETS TO STONEFIELD ENGINEERING & DESIGN, LLC. FOR REVIEW AND APPROVAL PRIOR TO POURING CURBS.

THE CONTRACTOR IS RESPONSIBLE TO SET ALL PROPOSED UTILITY COVERS AND RESET ALL EXISTING UTILITY COVERS WITHIN THE PROJECT LIMITS TO PROPOSED GRADE IN ACCORDANCE WITH ANY APPLICABLE MUNICIPAL, COUNTY, STATE AND/OR UTILITY AUTHORITY REGULATIONS.

MINIMUM SLOPE REQUIREMENTS TO PREVENT PONDING SHALL BE AS FOLLOWS:

· CURB GUTTER: 0.50% · CONCRETE SURFACES: 1.00% · ASPHALT SURFACES: 1.00%

A MINIMUM SLOPE OF 1.00% SHALL BE PROVIDED AWAY FROM ALL BUILDINGS. THE CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE FROM THE BUILDING IS ACHIEVED AND SHALL NOTIFY STONEFIELD ENGINEERING & DESIGN, LLC. IF THIS CONDITION CANNOT BE MET.

FOR PROJECTS WHERE BASEMENTS ARE PROPOSED, THE DEVELOPER IS RESPONSIBLE TO DETERMINE THE DEPTH TO GROUNDWATER AT THE LOCATION OF THE PROPOSED STRUCTURE. IF GROUNDWATER IS ENCOUNTERED WITHIN THE BASEMENT AREA, SPECIAL CONSTRUCTION METHODS SHALL BE UTILIZED AND REVIEWED/APPROVED BY THE CONSTRUCTION CODE OFFICIAL. IF SUMP PUMPS ARE UTILIZED, ALL DISCHARGES SHALL BE CONNECTED DIRECTLY TO THE PUBLIC STORM SEWER SYSTEM WITH APPROVAL FROM THE GOVERNING STORM SEWER SYSTEM AUTHORITY

ADA NOTES

THE CONTRACTOR SHALL MAINTAIN A MAXIMUM 2.00% SLOPE IN ANY DIRECTION WITHIN THE ADA PARKING SPACES AND ACCESS AISLES.

THE CONTRACTOR SHALL PROVIDE COMPLIANT SIGNAGE AT ALL ADA PARKING AREAS IN ACCORDANCE WITH STATE GUIDELINES.

THE CONTRACTOR SHALL MAINTAIN A MAXIMUM 5.00% RUNNING SLOPE AND A MAXIMUM OF 2.00% CROSS SLOPE ALONG WALKWAYS WITHIN THE ACCESSIBLE PATH OF TRAVEL (SEE THE SITE PLAN FOR THE LOCATION OF THE ACCESSIBLE PATH). THE CONTRACTOR IS RESPONSIBLE TO ENSURE THE ACCESSIBLE PATH OF TRAVEL IS 36 INCHES WIDE OR GREATER UNLESS INDICATED OTHERWISE WITHIN THE PLAN SET.

THE CONTRACTOR SHALL MAINTAIN A MAXIMUM 2.00% SLOPE IN ANY DIRECTION AT ALL LANDINGS. LANDINGS INCLUDE, BUT ARE NOT LIMITED TO, THE TOP AND BOTTOM OF AN ACCESSIBLE RAMP, AT ACCESSIBLE BUILDING ENTRANCES, AT AN AREA IN FRONT OF A

WALK-UP ATM. AND AT TURNING SPACES ALONG THE ACCESSIBLE PATH OF TRAVEL. THE LANDING AREA SHALL HAVE A MINIMUM CLEAR AREA OF 60 INCHES BY 60 INCHES UNLESS INDICATED OTHERWISE WITHIN THE PLAN SET.

THE CONTRACTOR SHALL MAINTAIN A MAXIMUM 8.33% RUNNING SLOPE AND A MAXIMUM 2.00% CROSS SLOPE ON ANY CURB RAMPS ALONG THE ACCESSIBLE PATH OF TRAVEL. WHERE PROVIDED, CURB RAMP FLARES SHALL NOT HAVE A SLOPE GREATER THAN 10.00% IF A

LANDING AREA IS PROVIDED AT THE TOP OF THE RAMP, FOR ALTERATIONS, A CURB RAMP FLARES SHALL NOT HAVE A SLOPE GREATER THAN 8.33% IF A LANDING AREA IS NOT PROVIDED AT THE TOP OF THE RAMP. CURBS RAMPS SHALL NOT RISE MORE THAN 6 INCHES IN ELEVATION WITHOUT A HANDRAIL. THE CLEAR WIDTH OF A CURB RAMP SHALL BE NO LESS THAN 36 INCHES WIDE.

ACCESSIBLE RAMPS WITH A RISE GREATER THAN 6 INCHES SHALL CONTAIN COMPLIANT HANDRAILS ON BOTH SIDES OF THE RAMP AND SHALL NOT RISE MORE THAN 30" IN ELEVATION WITHOUT A LANDING AREA IN BETWEEN RAMP RUNS. LANDING AREAS SHALL ALSO BE PROVIDED AT THE TOP AND BOTTOM OF THE RAMP.

A SLIP RESISTANT SURFACE SHALL BE CONSTRUCTED ALONG THE ACCESSIBLE PATH AND WITHIN ADA PARKING AREAS.

THE CONTRACTOR SHALL ENSURE A MAXIMUM OF 1/4 INCHES VERTICAL CHANGE IN LEVEL ALONG THE ACCESSIBLE PATH. WHERE A CHANGE IN LEVEL BETWEEN 1/4 INCHES AND 1/2 INCHES EXISTS, CONTRACTOR SHALL ENSURE THAT THE TOP 1/4 INCH CHANGE IN LEVEL IS BEVELED WITH A SLOPE NOT STEEPER THAN 1 UNIT VERTICAL AND 2 UNITS HORIZONTAL (2:1 SLOPE).

THE CONTRACTOR SHALL ENSURE THAT ANY OPENINGS (GAPS OR HORIZONTAL SEPARATION) ALONG THE ACCESSIBLE PATH SHALL NOT ALLOW PASSAGE OF A SPHERE GREATER THAN ½ INCH.

DATE:

02/13/2025

SCALE:

1" = 10'

SHEET NO:

1. INLET FILTERS SHALL BE INSPECTED WEEKLY UNDER NORMAL CONDITIONS, WITHIN 24 HOURS OF RAINFALL AND DAILY DURING PROLONG RAIN.

2. BUILT UP SEDIMENT AND DEBRIS

PROMPTLY REPLACED

TO BE NON-BLACK IN COLOR.

ÎNLET FILTERS NOTE:

SHALL BE REMOVED PROMPTLY.

3. IF THE FABRIC DECOMPOSES OR BECOMES INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USEABLE LIFE, AND THE BARRIER IS STILL REQUIRED. THE FABRIC SHALL BE

4. DEBRIS BAGS IN THE PUBLIC ROW ARE

GENERAL NOTES:

1. IN THE EVENT OF CONFLICT BETWEEN THESE PLANS AND THE CITY'S STANDARD NOTES, THE CITY'S STANDARDS SHALL PREVAIL.

2. ALL PROPOSED UTILITY MATERIALS AND INSTALLATION PROCEDURES SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS, SPECIFICATIONS AND CONSTRUCTION DETAILS OF THE CITY OF LANSING.

3. REFER TO THE STANDARD DETAILS OF THE AUTHORITY HAVING JURISDICTION REGARDING UTILITY TRENCH BEDDING AND BACKFILL REQUIREMENTS.

4. REFER TO THE STANDARD DETAILS OF THE AUTHORITY HAVING JURISDICTION REGARDING REQUIRED MANHOLE AND CASTING DETAILS AND TYPES.

5. CONTRACTOR SHALL COORDINATE SCHEDULING AND PROCEDURES WITH THE AUTHORITY HAVING JURISDICTION PRIOR TO PERFORMING THE PROPOSED CONNECTIONS TO THE EXISTING UTILITIES.

A MINIMUM VERTICAL SEPARATION OF 18 INCHES SHALL BE MAINTAINED BETWEEN CROSSING UTILITIES, UNLESS OTHERWISE APPROVED.

A MINIMUM HORIZONTAL SEPARATION OF 10 FEET SHALL BE MAINTAINED BETWEEN SANITARY SEWER LINES AND POTABLE WATER LINES.

8. NO CONNECTIONS TO EXISTING WATER MAINS SHALL BE MADE UNTIL AFTER THE NEW MAIN HAS SUCCESSFULLY PASSED BACTERIOLOGICAL AND HYDROSTATIC TESTS.

9. NO CONNECTION RECEIVING STORM WATER, SURFACE WATER OR GROUND WATER SHALL BE MADE TO

10. CONTRACTOR SHALL COORDINATE WITH ARCHITECTURAL DRAWINGS FOR ALL UTILITY CONNECTIONS TO THE BUILDING. CONTRACTOR SHALL CONFIRM ALL BUILDING CONNECTION LOCATIONS AND ELEVATIONS AND NOTIFY THE PROJECT TEAM OF ANY DISCREPANCIES PRIOR TO COMMENCING WORK.

11. PRIVATE UTILITIES (INCLUDING ELECTRIC, GAS, PHONE, AND CABLE) SHOWN FOR SCHEMATIC PURPOSES ONLY. ALL PRIVATE UTILITY ROUTING AND INSTALLATION SHALL BE COORDINATED BY THE RESPECTIVE UTILITY COMPANY AND/OR THE CONTRACTOR.

12. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY AND/OR OBTAIN ANY INFORMATION NECESSARY REGARDING THE PRESENCE OF UNDERGROUND UTILITIES WITHIN THE AREAS OF PROPOSED DEVELOPMENT.

13. THE CONTRACTOR SHALL CALL "MISS DIG"AT LEAST THREE BUSINESS DAYS PRIOR TO THE START OF ANY CONSTRUCTION ON THE SITE.

14. THERE ARE FIRE WALLS WITHIN THE PROPOSED BUILDING.

15. BOOSTER PUMPS ARE NOT PROPOSED WITHIN THE PROPOSED BUILDING.

16 DIDE MATERIALS FOR BURLIS CANTTARY SEWER SYSTEMS

16. PIPE MATERIALS FOR PUBLIC SANITARY SEWER SYSTEMS

VCP C700ES FOR DIAMETER UP TO 18 INCHES AND DEPTHS LESS THAN 14 FEET.
 PVC – SDR 26 OR TRUSS PIPE

16. ALL SANITARY SEWER PIPE AND LEADS SHALL BE 6 INCH

UTILITY KEY NOTES:

1. CONNECT DIRECTLY TO EXISTING CITY SANITARY. THE LEAD SHALL BE TIED IN TOWARD THE TOP OF THE EXISTING SANITARY SEWER.

2. INSTALL NEW 2 INCH COPPER WATER LINE SUPPLY SERVICE, WITH SHUT OFF VALVES.

4. INSTALL 6" PVC-SDR 26, SANITARY SEWER LINE. PIPE SLOPE SHALL BE 1% MIN.

5. CONNECT TO NEW GAS LINE (UNDERGROUND)

6. CONNECT TO NEW ELECTRICAL LINE (UNDERGROUND) W/DISCONNECT & METER BANK

7. INSTALL NEW SANITARY SEWER CLEAN-OUT (EVERY 100 FEET)

8. HEATED AND LOCK METER ROOM

9. CONNECT TO BWL WATER MAIN COORDINATE WITH BWL

10. ROOF DRAINS SHALL BE CONNECTED TO NEW STORM SEWER SYSTEM.

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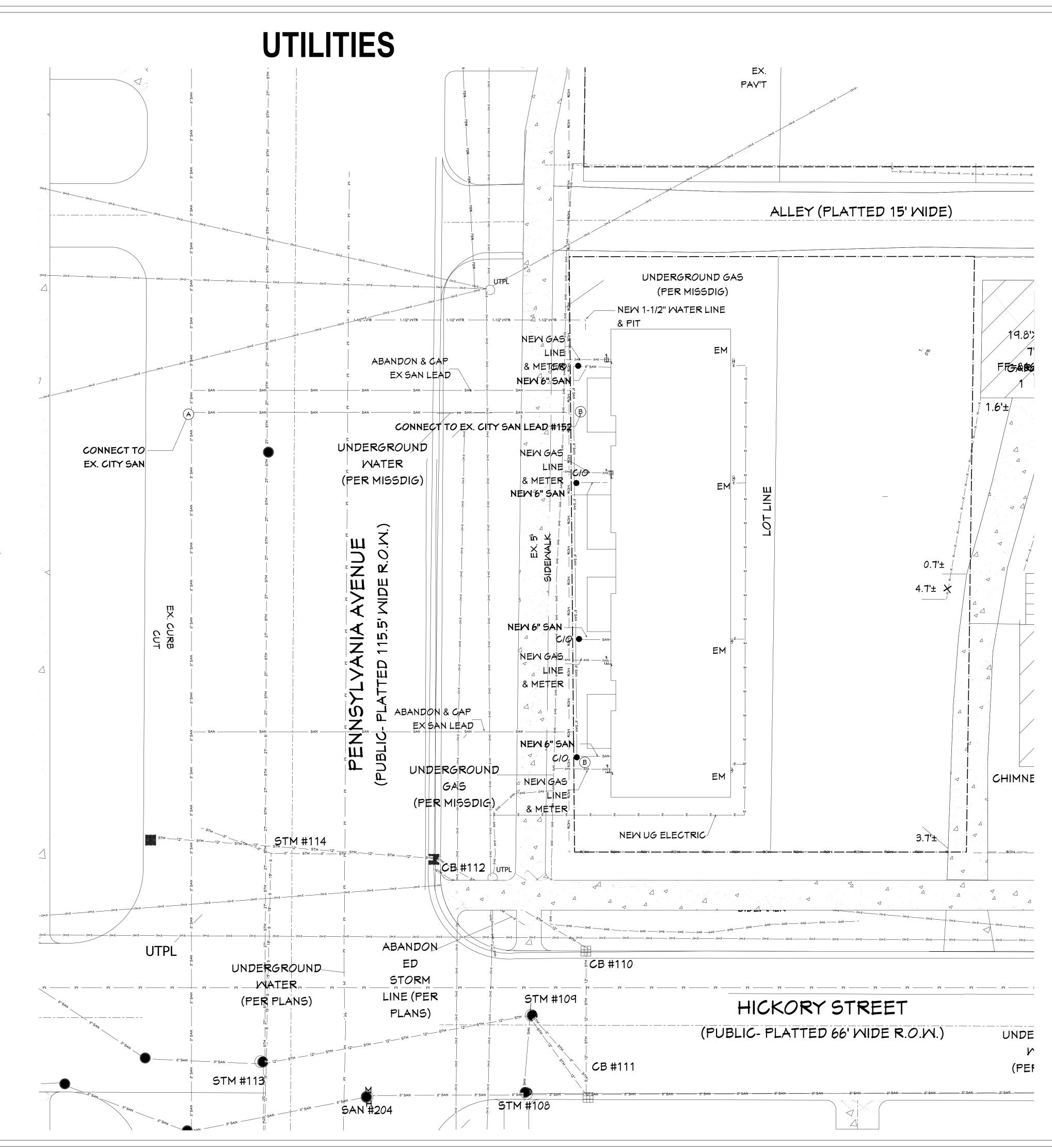
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MINIMUM SLOPE REQUIREMENTS TO PREVENT PONDING SHALL BE AS FOLLOWS:

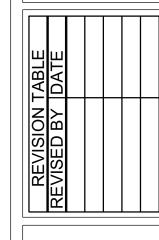
CURB GUTTER: 0.50%CONCRETE SURFACES: 1.00%ASPHALT SURFACES: 1.00%

A MINIMUM SLOPE OF 1.00% SHALL BE PROVIDED AWAY FROM ALL BUILDINGS. THE CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE FROM THE BUILDING IS ACHIEVED AND SHALL NOTIFY STONEFIELD ENGINEERING & DESIGN, LLC. IF THIS CONDITION CANNOT BE MET.

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LLC 10722 CORKERY LN GRAND LEDGE, MI 48837 P: 517.898.8152 E: www.caengineersllc.com

INGHAM COUNTY LAND BANK HICKORY POINTE CONDOMINIU 400 BLOCK S. PENNSYLVANIA LANSING, MI 48912

OILLIES

INGHAM COUNTY LAND BANK 3024 TURNER RD LANSING, MICHIGAN

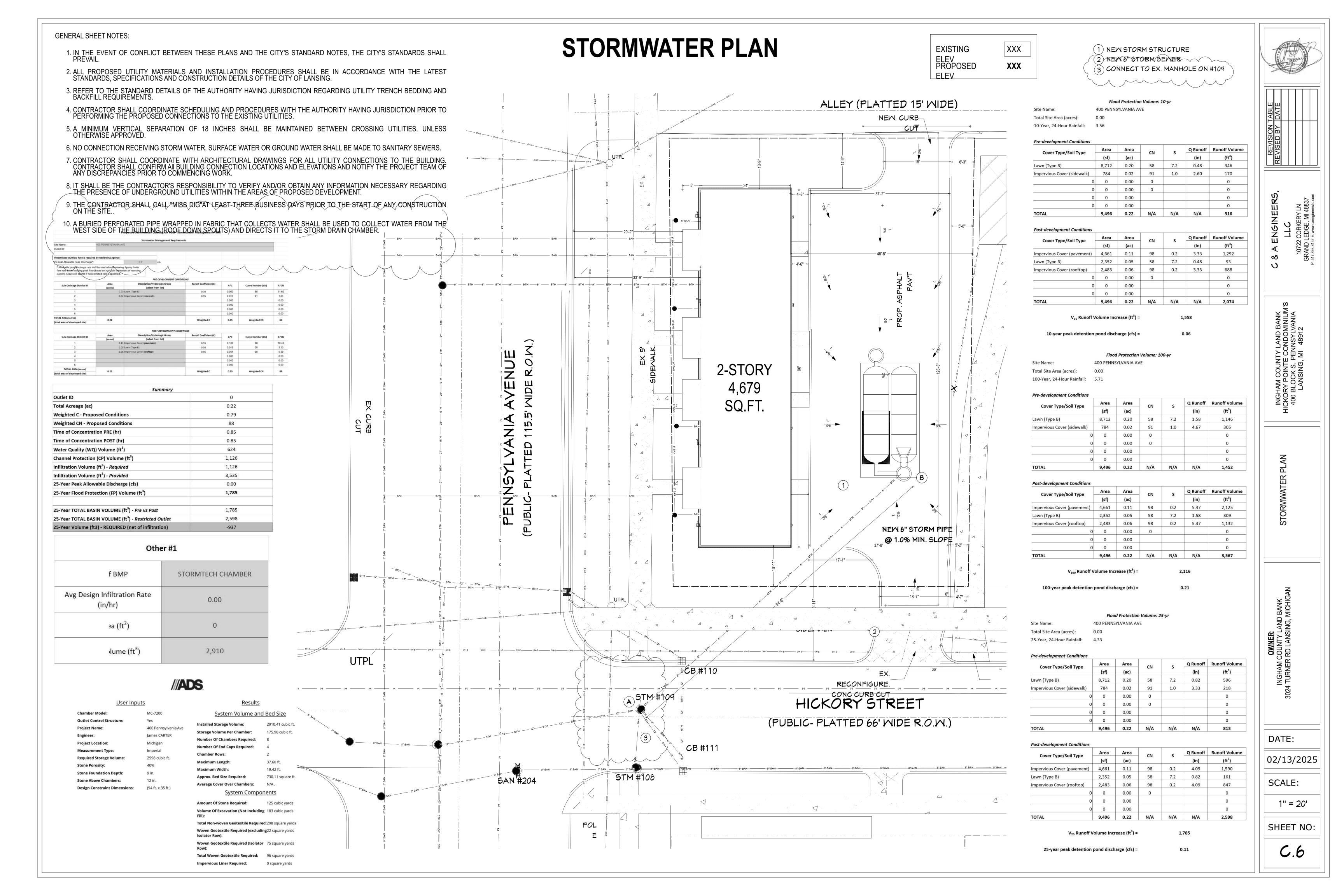
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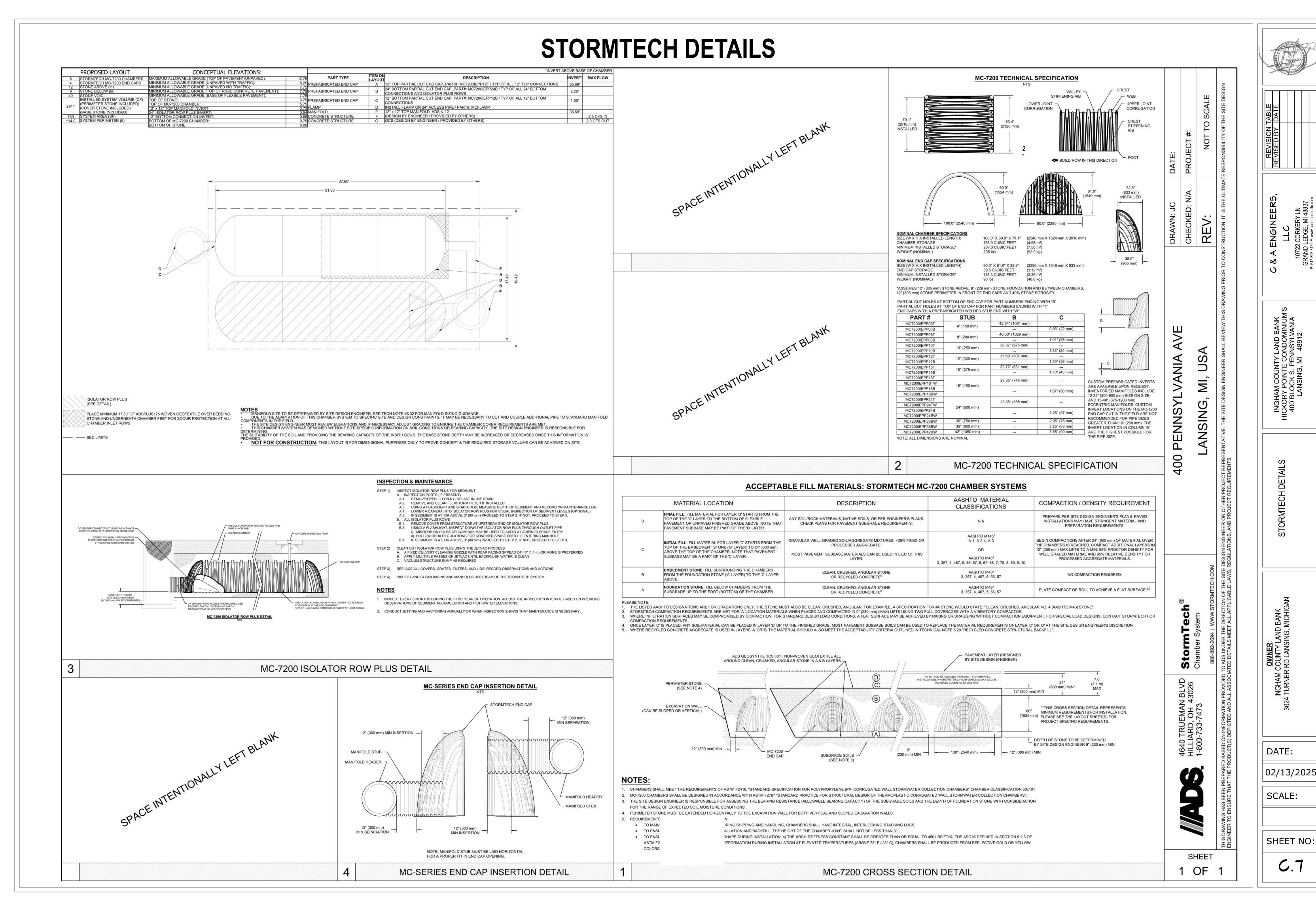
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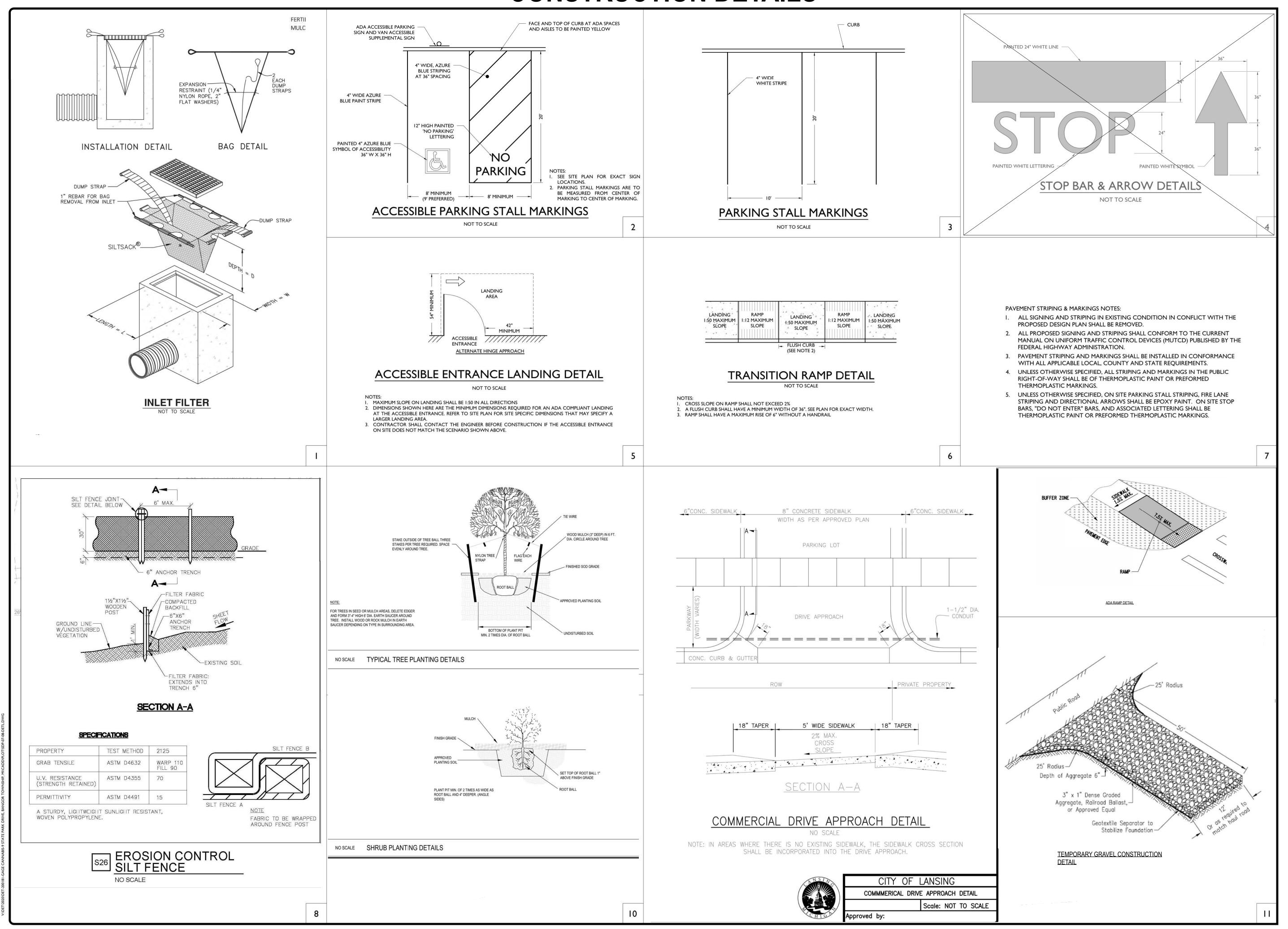
SHEET NO:

C.5





CONSTRUCTION DETAILS



SHAUPEN STATE OF STAT

REVISION TABLE
REVISED BY DATE

LLC 10722 CORKERY LN GRAND LEDGE, MI 48837 P: 517.898.8152 E: www.caengineersllc.com

NGHAM COUNTY LAND BANK KORY POINTE CONDOMINIUM'S 100 BLOCK S. PENNSYLVANIA LANSING, MI 48912

ONSTRUCTION DETAILS

OWNER: INGHAM COUNTY LAND BANK 24 TURNER RD LANSING, MICHIGAN

DATE:

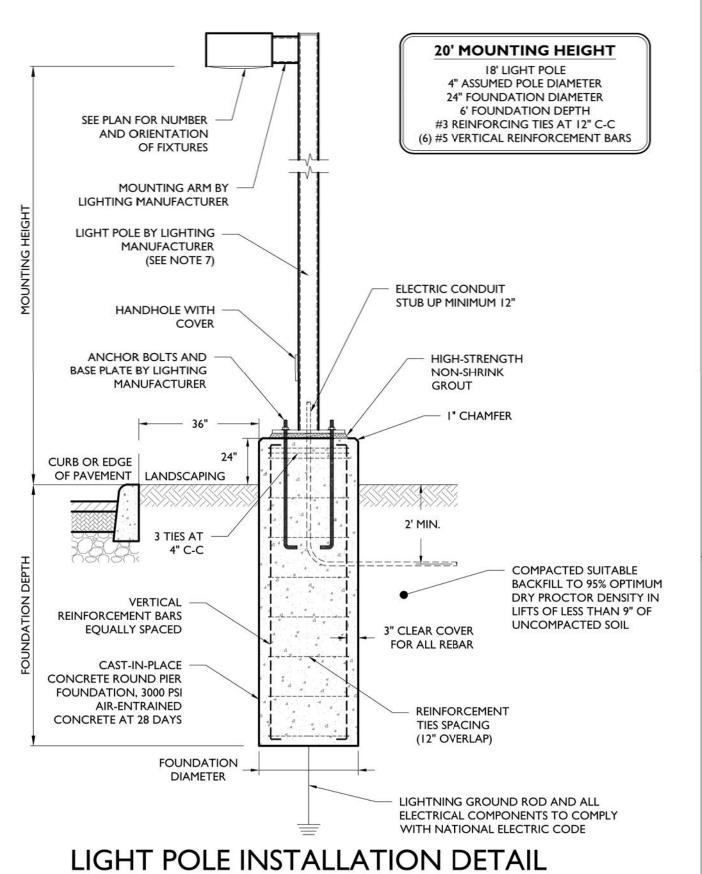
02/13/2025

SCALE:

SHEET NO:

C.8

CONSTRUCTION DETAILS



CONCRETE SHALL HAVE A MAXIMUM SLUMP OF 4" (WITHIN I" TOLERANCE).

- I. MINIMUM SOIL BEARING PRESSURE OF 1500 PSF, SOIL FRICTION ANGLE OF 30 DEGREES, AND SOIL DRY UNIT WEIGHT OF 120 PCF SHALL BE CONFIRMED IN THE FIELD BY A QUALIFIED PROFESSIONAL. CAST-IN-PLACE CONCRETE SHALL BE CONSOLIDATED USING VIBRATOR.
- ALL REBAR TO BE NEW GRADE 60 STEEL.
- PRE-CAST PIERS ACCEPTABLE UPON WRITTEN APPROVAL OF SHOP DRAWING BY ENGINEER. CONCRETE TO BE INSTALLED A MINIMUM OF 7 DAYS PRIOR TO INSTALLING LIGHT POLE. POURED CONCRETE MIX REQUIRED TO OBTAIN 80% OF DESIGN STRENGTH PRIOR TO INSTALLING LIGHT POLE.
- 7. POLE SHALL BE RATED FOR 10 MPH HIGHER THAN MAXIMUM WIND SPEED 33FT ABOVE GROUND FOR THE AREA BASED ON ANSI/ASCE 7-93.
- 8. POUR TO BE TERMINATED AT A FORM.
- 9. WORK SHALL CONFORM TO ACI BEST PRACTICES FOR APPROPRIATE TEMPERATURE AND WEATHER CONDITIONS.
- 10. CONTRACTOR TO TEMPORARILY SUPPORT ADJACENT SOIL AND STRUCTURES DURING EXCAVATION IF REQUIRED.

2" THICK, HMA SURFACE COURSE -4" THICK, HMA BASE COURSE NEW ASPHALT - EXISTING ASPHALT MILLED ASPHALT KEY I" DEEP X 12" WIDE 6" THICK, APPROVED DENSE **GRADED AGGREGATE** - SAW CUT AND HOT TAR SEAL APPROVED COMPACTED FULL DEPTH ASPHALT PAVEMENT DETAIL NOT TO SCALE HMA MIX AND DENSE GRADED AGGREGATE SHALL CONFORM TO STATE DEPARTMENT OF TRANSPORTATION SPECIFICATIONS.

- 1/4" RADIUS

CONCRETE WALKWAY TO ASPHALT

TRANSITION DETAIL

NOT TO SCALE

HOT TAR SEAL

(SEE DETAIL)

SUBGRADE

FULL DEPTH ASPHALT

APPROVED COMPACTED

4" THICK, APPROVED CLEAN

PROPOSED 4" CONCRETE

WALKWAY (SEE DETAIL)

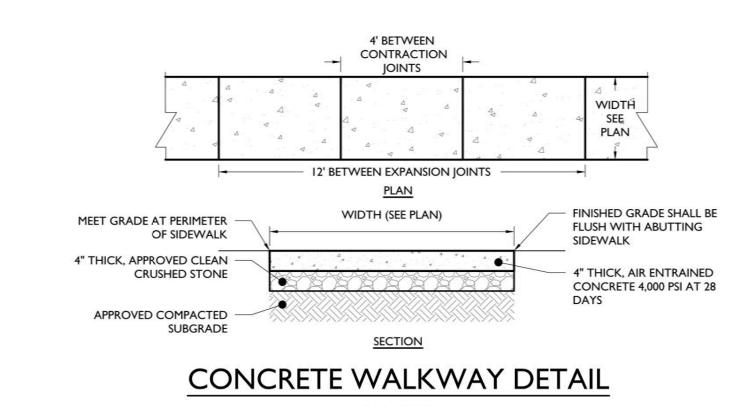
CRUSHED STONE

MEET GRADE AT PERIMETER 6" X 6" GRID, W2.9 X W2.9 WIDTH (SEE PLAN) OF CONCRETE MAT WELDED WIRE MESH FINISHED GRADE SHALL BE FLUSH 6" THICK, APPROVED CLEAN WITH ABUTTING PAVEMENT CRUSHED STONE APPROVED COMPACTED 6" THICK, AIR ENTRAINED SUBGRADE CONCRETE 4,000 PSI AT 28 DAYS **REINFORCED 6'** NOT TO SCALE I. 1/2" EXPANSION JOINTS WITH WATER SEAL SHALL BE PROVIDED AT 12' INTERVALS WITH PRE-MOLDED, BITUMINOUS JOINT FILLER, RECESSED $\frac{1}{4}$ " FROM THE SURFACE. LONGITUDINAL REBAR TO BE CUT AT 2. I" DEEP BY 1/4" WIDE, TOOLED CONTRACTION JOINTS SHALL BE PROVIDED AT MID-POINT BETWEEN EXPANSION JOINTS OR 6' INTERVALS MAX. CONCRETE SHALL RECEIVE BROOM FINISH.

4. ALL EXPOSED CORNERS TO HAVE 12" CHAMFER.

HOT TAR SEAL

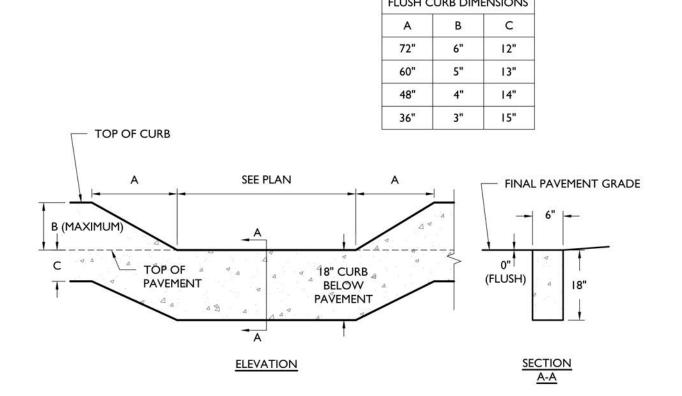
ASPHALT



NOT TO SCALE

I. MAXIMUM CROSS SLOPE SHALL BE $\frac{1}{4}$ " PER FOOT. 2. 1/4" EXPANSION JOINTS SHALL BE PROVIDED AT 12' INTERVALS WITH PRE-MOLDED,

BITUMINOUS JOINT FILLER, RECESSED 1/4" FROM THE SURFACE. 3. I" DEEP BY "WIDE, TOOLED CONTRACTION JOINTS SHALL BE PROVIDED AT 4' INTERVALS. 4. EXPANSION JOIN SHALL BE PROVIDED WHERE ADJACENT TO A BUILDING.



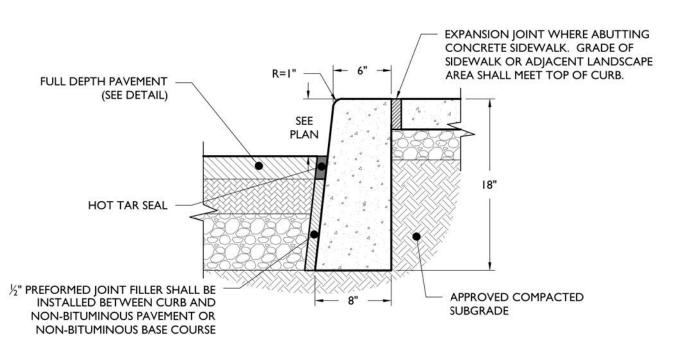
FLUSH CURB DETAIL

NOT TO SCALE

CONCRETE TO ASPHALT TRANSITION DETAIL NOT TO SCALE

APPROVED DENSE

GRADED AGGREGATE



CONCRETE CURB DETAIL

NOT TO SCALE

- I. CONCRETE SHALL BE 3500 PSI AT 28 DAYS, AIR-ENTRAINED.
- 2. TRANSVERSE EXPANSION JOINTS SHALL BE PROVIDED AT 20 FOOT INTERVALS WITH PRE-MOLDED, BITUMINOUS JOINT FILLER, RECESSED 1/4" FROM SURFACE.
- 3. HALF DEPTH CONTRACTION JOINTS SHALL BE PROVIDED AT 10 FOOT INTERVALS.

4. 18" CURB DEPTH SHALL BE MAINTAINED AT DEPRESSED OR FLUSH CURBED AREAS.

TROWEL JOINT EVERY IO FEET TAPERED CURB DETAIL

DATE:

02/13/2025

SCALE:

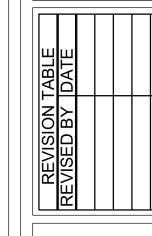
SHEET NO:

FLUSH CURB DIMENSIONS

ELEVATION







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ELEVATION

INGHAM COUNTY LAND BANK 3024 TURNER RD LANSING. MICHIGAN

DATE:

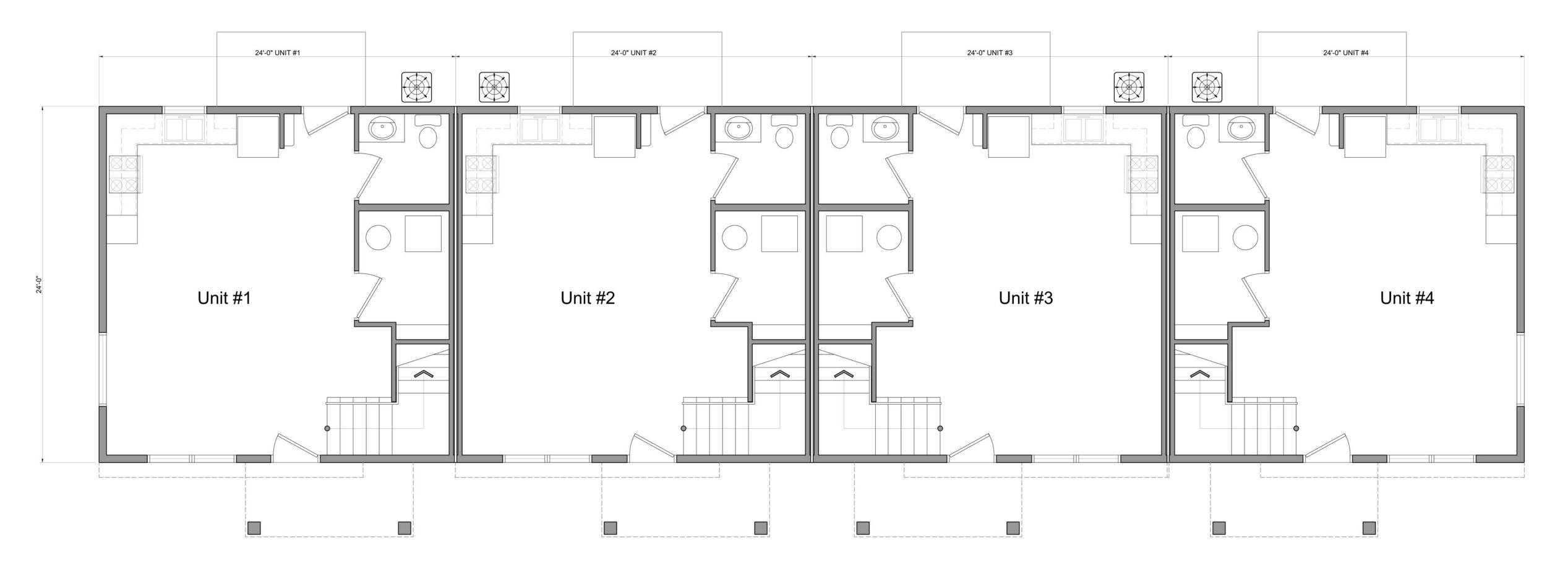
02/13/2025

SCALE:

1/4" = 1'

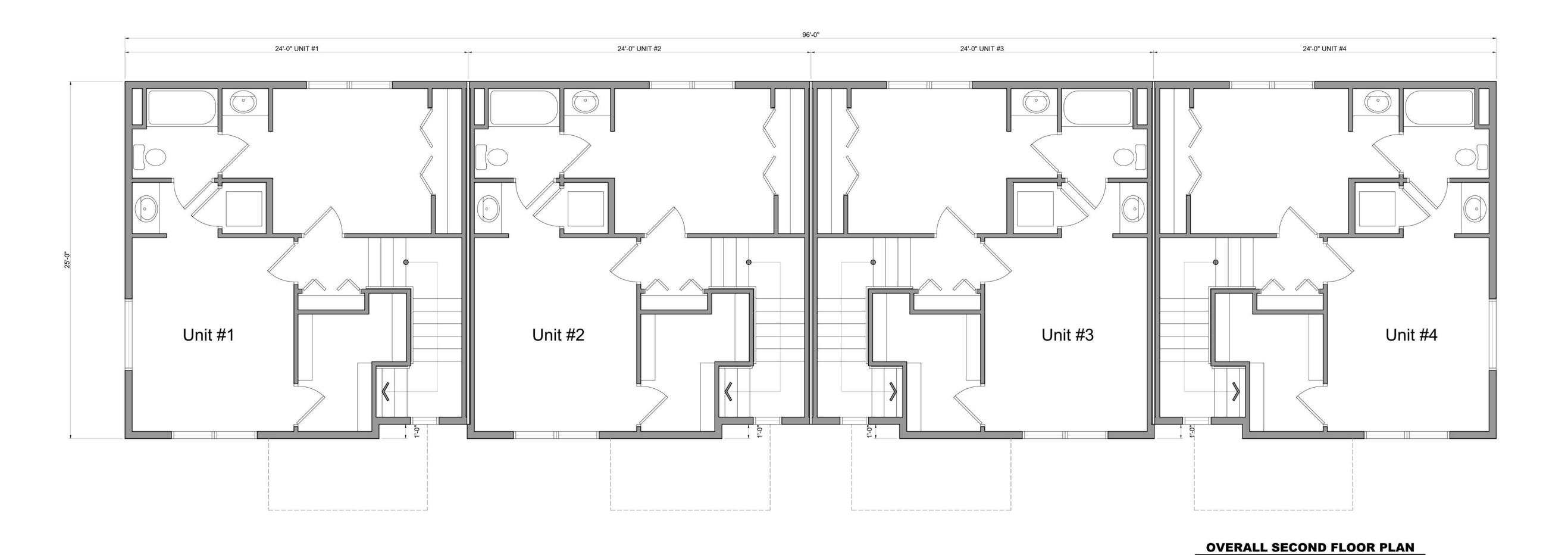
SHEET NO:

FLOOR PLAN



OVERALL FIRST FLOOR PLAN

SCALE: 1/4" = 1'-0"



Principles of the second of th

REVISED BY DATE

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INGHAM COUNTY LAND BANK HICKORY POINTE CONDOMINIUM'S 400 BLOCK S. PENNSYLVANIA LANSING, MI 48912

LOOR PLAN

INGHAM COUNTY LAND BANK 3024 TURNER RD LANSING, MICHIGAN

DATE:

02/13/2025

SCALE:

SHEET NO:

1/8" = 1'

A 2