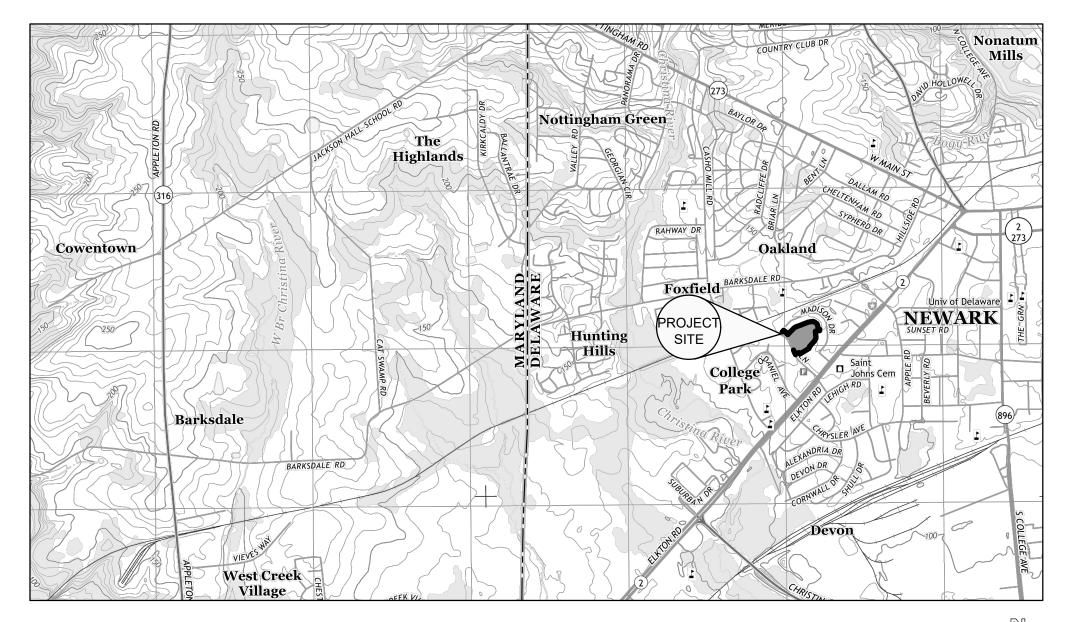
CONSTRUCTION PLAN FOR EDNA C. DICKEY PARK SITE IMPROVEMENTS

NEWARK, NEW CASTLE COUNTY, DELAWARE
CONTRACT ITB 24-11

PROJECT NOTES

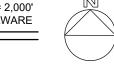
- CONTRACTOR SHALL NOTIFY MISS UTILITY OF DELAWARE 72 HOURS BEFORE START OF CONSTRUCTION AND BEFORE DIGGING. CALL 1(800) 282-8555.
- 2. CONTRACTOR SHALL NOTIFY PAULA MARTINSON ENNIS, DIRECTOR, PARKS AND RECREATION, AT 302-366-7000 EXT 1042 AT LEAST 72 HOURS BEFORE START OF CONSTRUCTION.
- 3. UNLESS OTHERWISE NOTED AND AS APPLICABLE TO THE WORK, ALL CONSTRUCTION, MATERIALS, AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE:
- 3.1. CITY OF NEWARK DELAWARE MUNICIPAL CODE
 3.2. CITY OF NEWARK DEPARTMENT OF PUBLIC WORKS AND WATER RESOURCES WATER AND WASTEWATER
- STANDARDS AND SPECIFICATIONS.

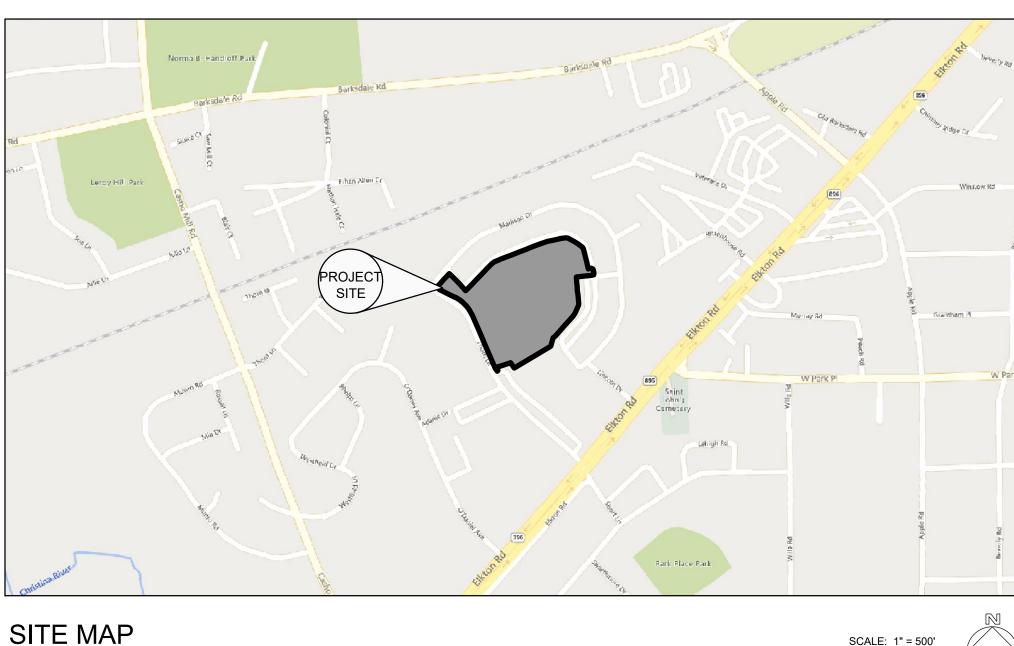
 3.3. CITY OF NEWARK STANDARD SPECIFICATIONS FOR ROAD AND UTILITY CONSTRUCTION, DETAILS AND
- 3.4. DELAWARE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS AND DETAILS
- 3.5. DELAWARE SEDIMENT AND STORMWATER REGULATIONS
- 4. WHERE REFERENCES ARE MADE TO STANDARDS, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO HAVE IN ITS POSSESSION THE LATEST UP-TO-DATE STANDARDS AS OF THE DATE OF ADVERTISEMENT OF THIS PROJECT.
- 5. ALL AREAS DISTURBED BY THE CONTRACTOR, WHETHER DISTURBED DIRECTLY OR INDIRECTLY BY THE CONSTRUCTION OR OTHER ACTIVITIES RELATED TO THE PERFORMANCE OF THIS PROJECT, SHALL BE RETURNED TO EQUAL OR BETTER THAN THE ORIGINAL CONDITION PRIOR TO FINAL ACCEPTANCE OF THE WORK. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT ALL EXISTING UTILITIES, CURBS, SIDEWALK, PAVING, SHRUBS, FENCING, ETC. ANY AND ALL DAMAGE DONE TO SAME SHALL BE IMMEDIATELY AND COMPLETELY REPAIRED AT CONTRACTOR'S EXPENSE.
- 6. UNLESS NOTED OTHERWISE, ALL MATERIALS SALVAGED DURING DEMOLITION AND CONSTRUCTION SHALL BECOME THE CONTRACTOR'S PROPERTY AND SHALL BE DISPOSED OF OFF-SITE IN A LAWFUL LOCATION AND MANNER. ALL FEES ASSOCIATED WITH OFF-SITE DISPOSAL SHALL BE PAID BY THE CONTRACTOR.
- 7. TEMPORARY EROSION AND SEDIMENT CONTROLS SHALL BE INSTALLED, MONITORED, AND MAINTAINED BY THE CONTRACTOR IN ACCORDANCE WITH THE APPROVED EROSION AND SEDIMENT CONTROL PLANS INCLUDED
- 8. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH HAVE OCCURRED BY HIS/HER FAILURE NOT TO EXACTLY LOCATE AND PRESERVE ANY AND ALL EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES AFFECTING HIS/HER WORK. ITEMS SHALL BE REPLACED WITH THE SAME TYPE OF MATERIAL THAT WAS REMOVED OR DAMAGED DURING CONSTRUCTION OR AS DIRECTED BY THE ENGINEER.
- 9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE LOCATION AND ACTIVITIES OF HIS FORCES WITH THE OWNER, AND ABUTTING PROPERTY OWNERS TO MINIMIZE INTERFERENCE WITH EXISTING UTILITIES, PEDESTRIAN TRAFFIC, AND PROPERTY ACCESS. PEDESTRIAN AND VEHICLE ACCESS SHALL BE MAINTAINED AT
- 10. THE PLANS AND SPECIFICATIONS DO NOT INCLUDE PROVISIONS FOR CONSTRUCTION SAFETY. A HEALTH AND SAFETY PLAN MUST BE DEVELOPED BY CONTRACTOR PRIOR TO STARTING WORK.
- 11. METHODS, PROCEDURES AND THE SEQUENCES OF CONSTRUCTION (OTHER THAN THAT NOTED ON THE DRAWINGS) ARE THE RESPONSIBILITY OF THE CONTRACTORS.
- 12. THE CONTRACTOR SHALL KEEP ROADWAYS CLEAN AT ALL TIMES. ALL SOIL SPILLED, DROPPED, WASHED OR TRACKER ONTO ROADWAYS OR OTHER IMPERVIOUS SURFACES MUST BE REMOVED IMMEDIATELY BY CONTRACTOR.
- 13. THE CONTRACTOR SHALL AT ALL TIMES MAINTAIN A JOB SITE FREE OF LITTER AND TRASH. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING THE SITE AT THE END OF THE DAY TO CLEAN UP ANY TRASH OR LITTER GENERATED BY THE PERSONNEL AND SUBCONTRACTORS WORKING FOR THE CONTRACTOR AND DISPOSE OF DEBRIS PROPERLY.
- 14. CONTRACTOR SHALL BE RESPONSIBLE FOR SETTING UP AND MAINTAINING ROAD CLOSURE SIGNS AND NOTIFYING THE PUBLIC/ADJOINING NEIGHBORS OF THE ROAD CLOSURE. ALL ROAD AND SIDEWALK CLOSURES SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- 15. THE CONTRACTOR IS RESPONSIBLE FOR SITE SECURITY WHICH INCLUDES MEASURES TO ENSURE CARS/VEHICLES CANNOT DRIVE INTO THE CONSTRUCTION SITE.
- 16. ANY DAMAGE TO CITY ROADS, SIDEWALKS, CURB, STORM SEWER, WATER, OR SANITARY SEWER INFRASTRUCTURE SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE PUBLIC WORKS AND WATER RESOURCES AT THE CONTRACTOR'S SOLE EXPENSE.



LOCATION MAP

SCALE: 1" = 2,000' USGS 7.5 MINUTE IMAGE MAP FOR NEWARK, DELAWARE





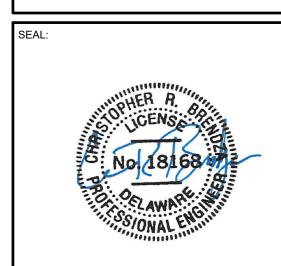
OWNER / DEVELOPER

CITY OF NEWARK 220 S MAIN STREET NEWARK, DE 19711 PHONE: 302-366-7000

PLAN PREPARER

JMT 121 CONTINENTAL DRIVE, SUITE 300 NEWARK, DE, 19713 PHONE: 302-266-9600





AL:

PREPARED FOR:

CITY OF NEWARK

PARKS AND

RECREATION

220 S MAIN STREET

NEWARK, DE 19711



REVISIONS				
NO.				
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EDNA C. DICKEY PARK
SITE IMPROVEMENTS

PROJECT LOCATION:

60 MADISON DRIVE
NEWARK, DELAWARE, 19711

PROJECT NUMBER:

20-03026-030

DATE: SCALE:
07/26/2024 AS NOTED

CONSTRUCTION PLAN

DRAWING TITLE:

COVER SHEET

SHEET INDEX

L-104

Sheet List Table

EXISTING CONDITIONS

DEMOLITION PLAN
MATERIALS PLAN

LANDSCAPE PLAN

ADD ALTERNATE

ELECTRICAL & LIGHTING PLAN

DETAILS DETAILS

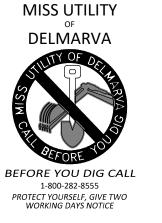
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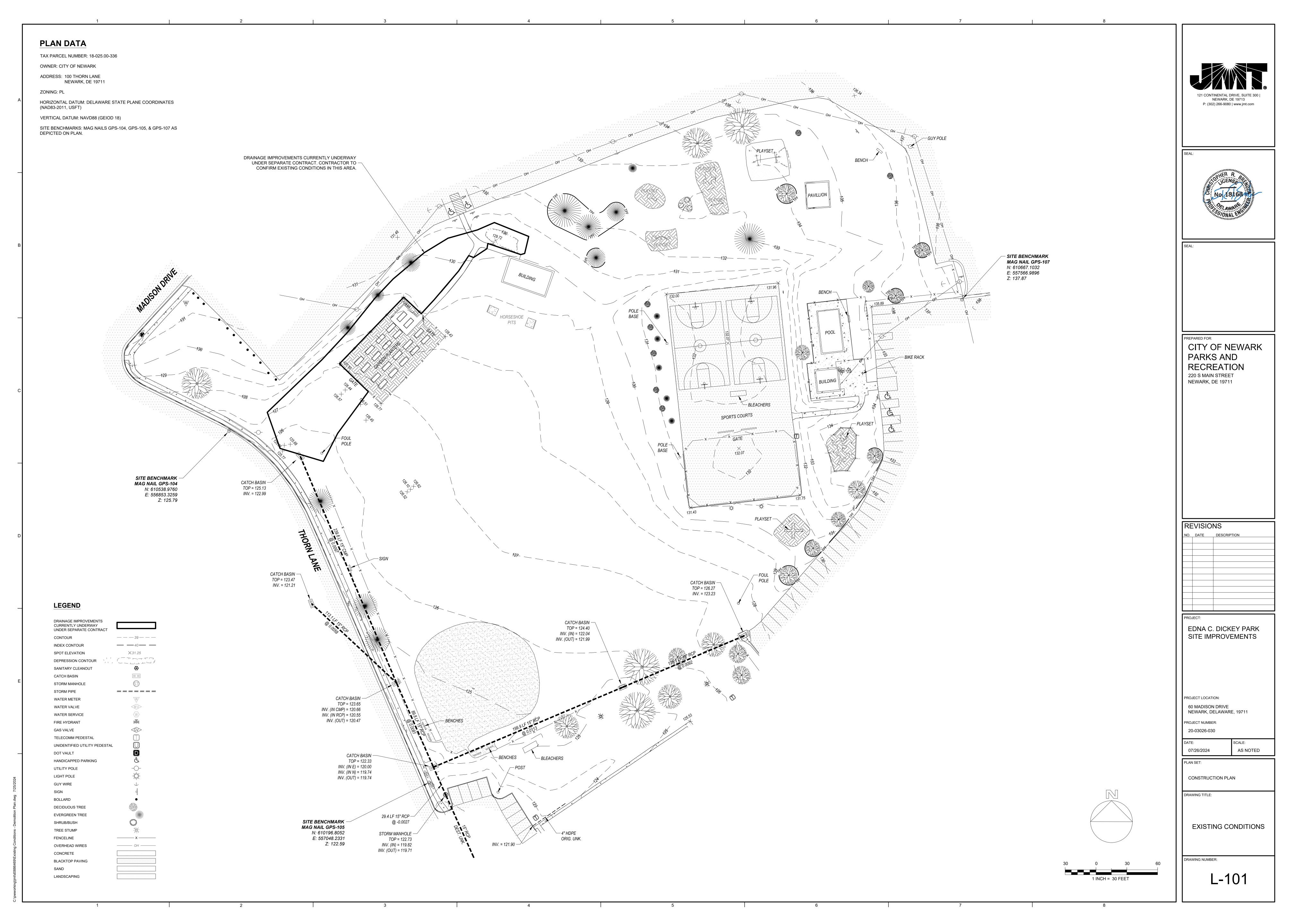
CUT SHEETS

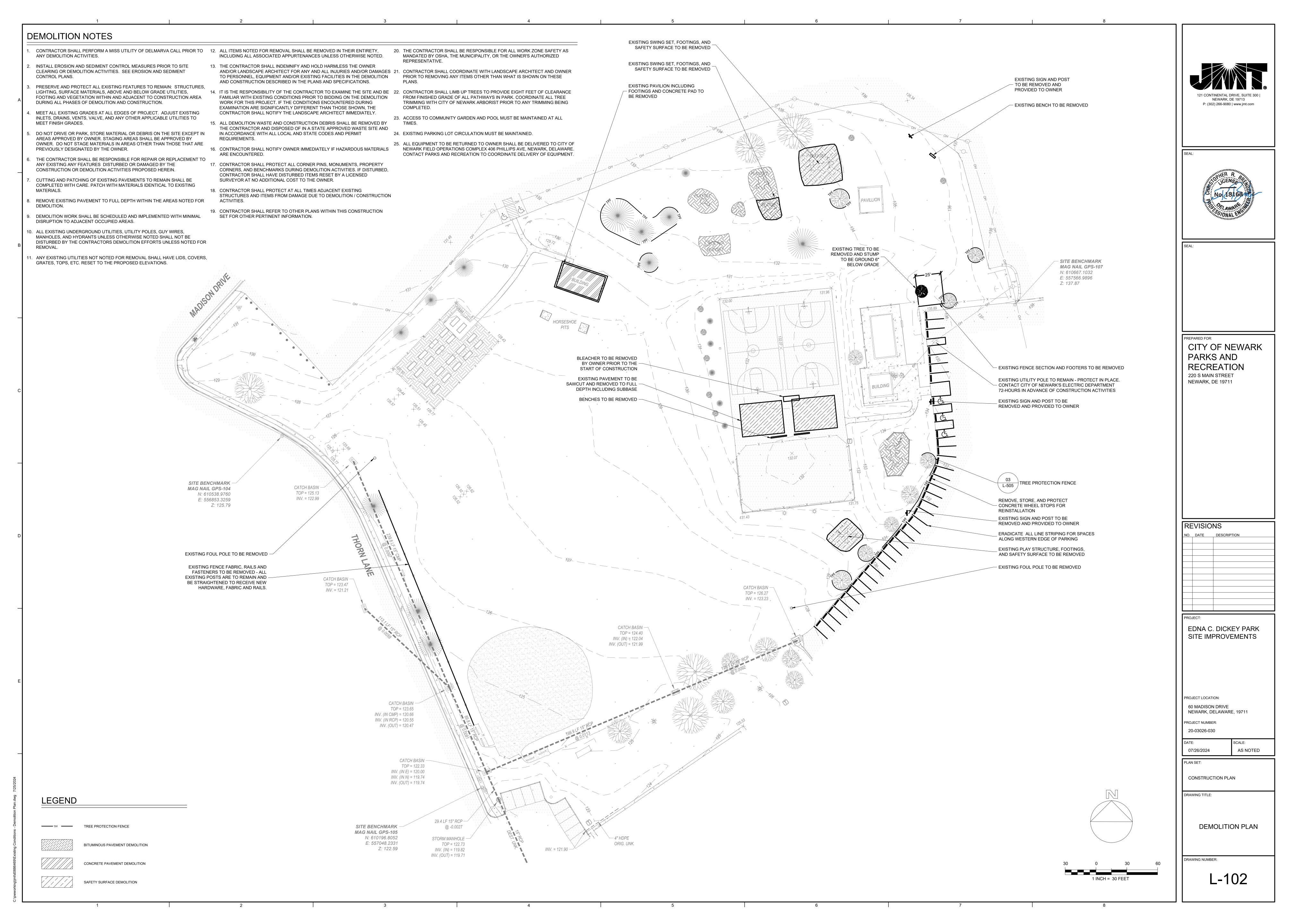
E&S PLAN DETAILS

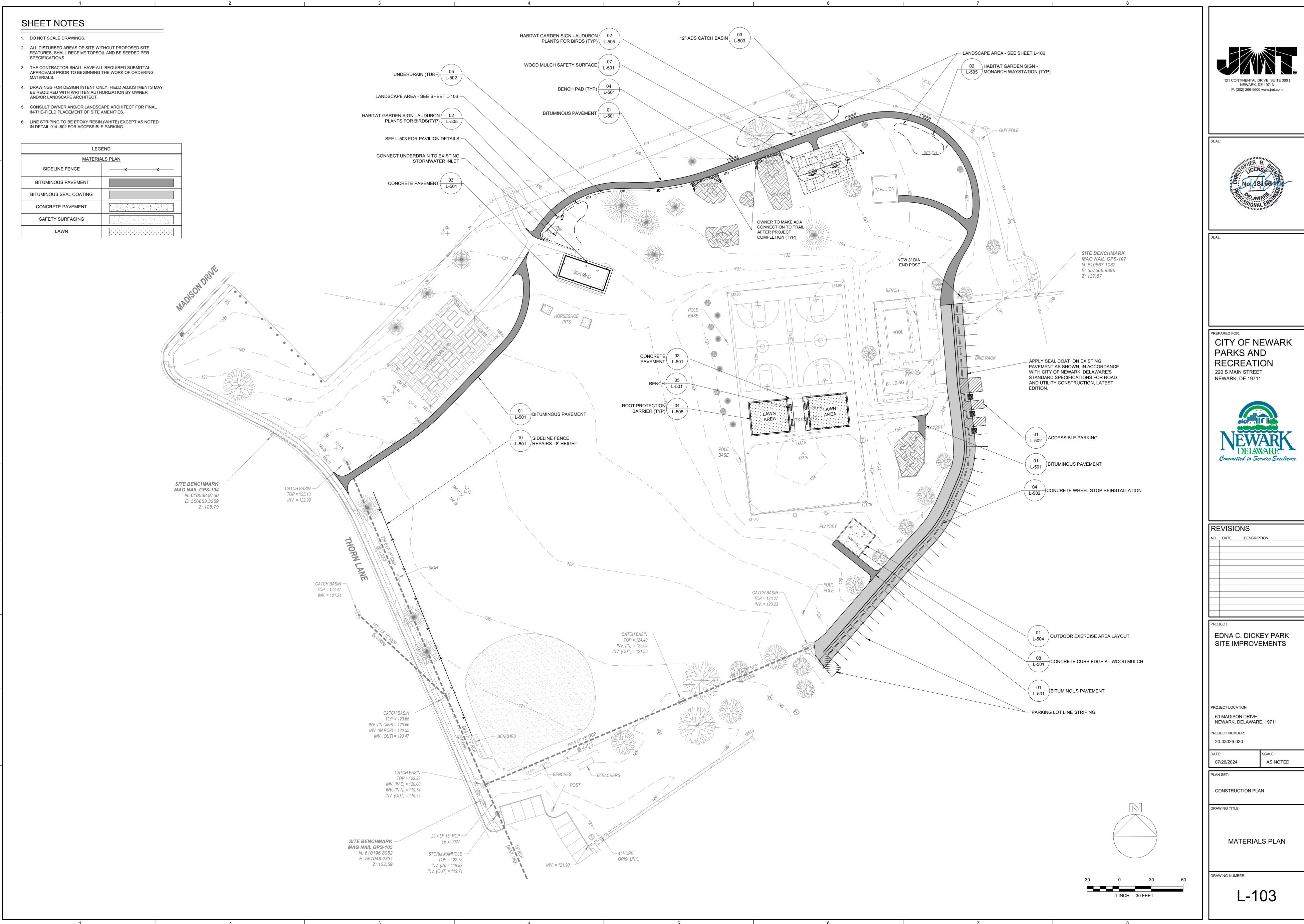
LAYOUT PLAN GRADING PLAN

DRAWING NUMBER:



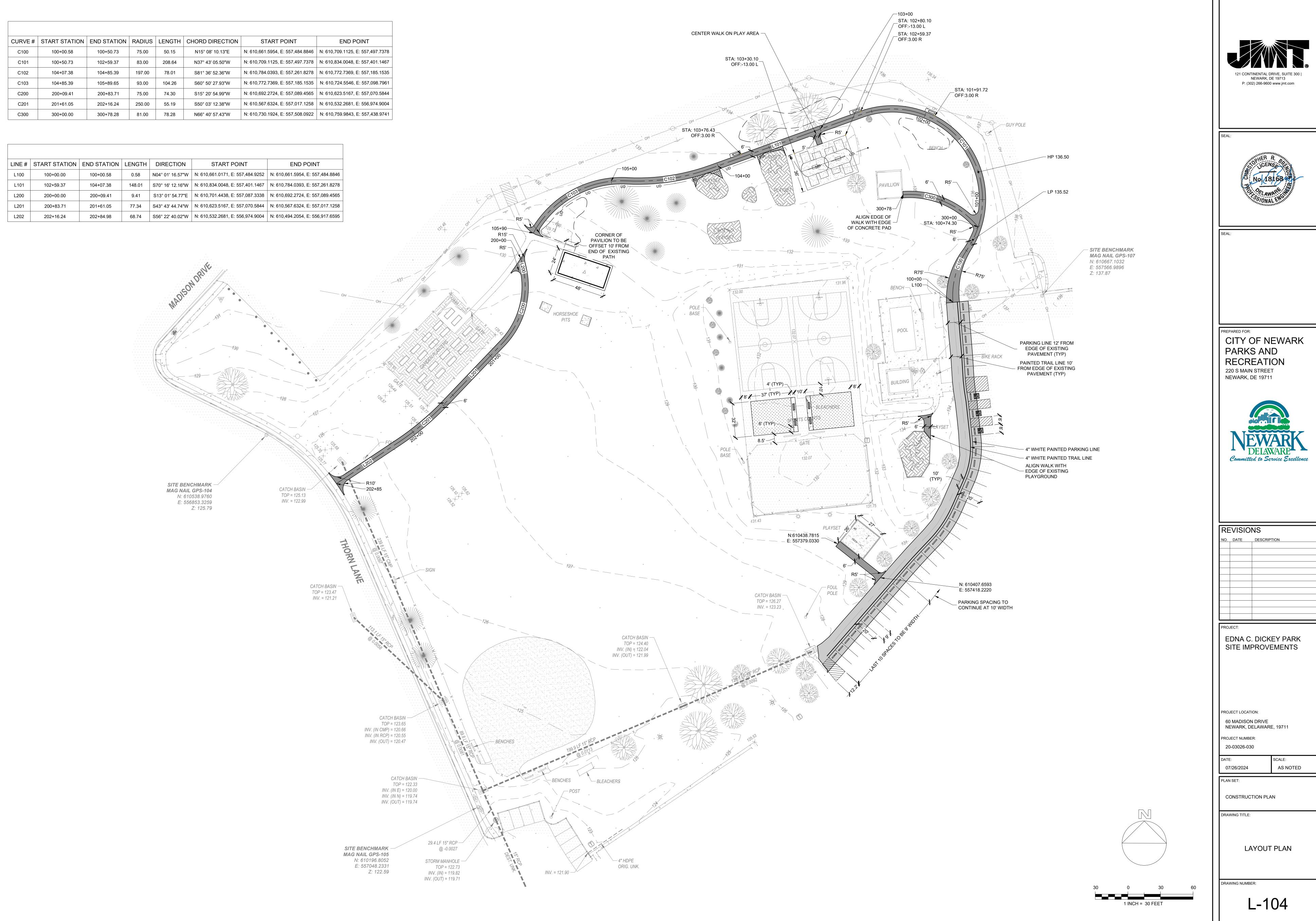




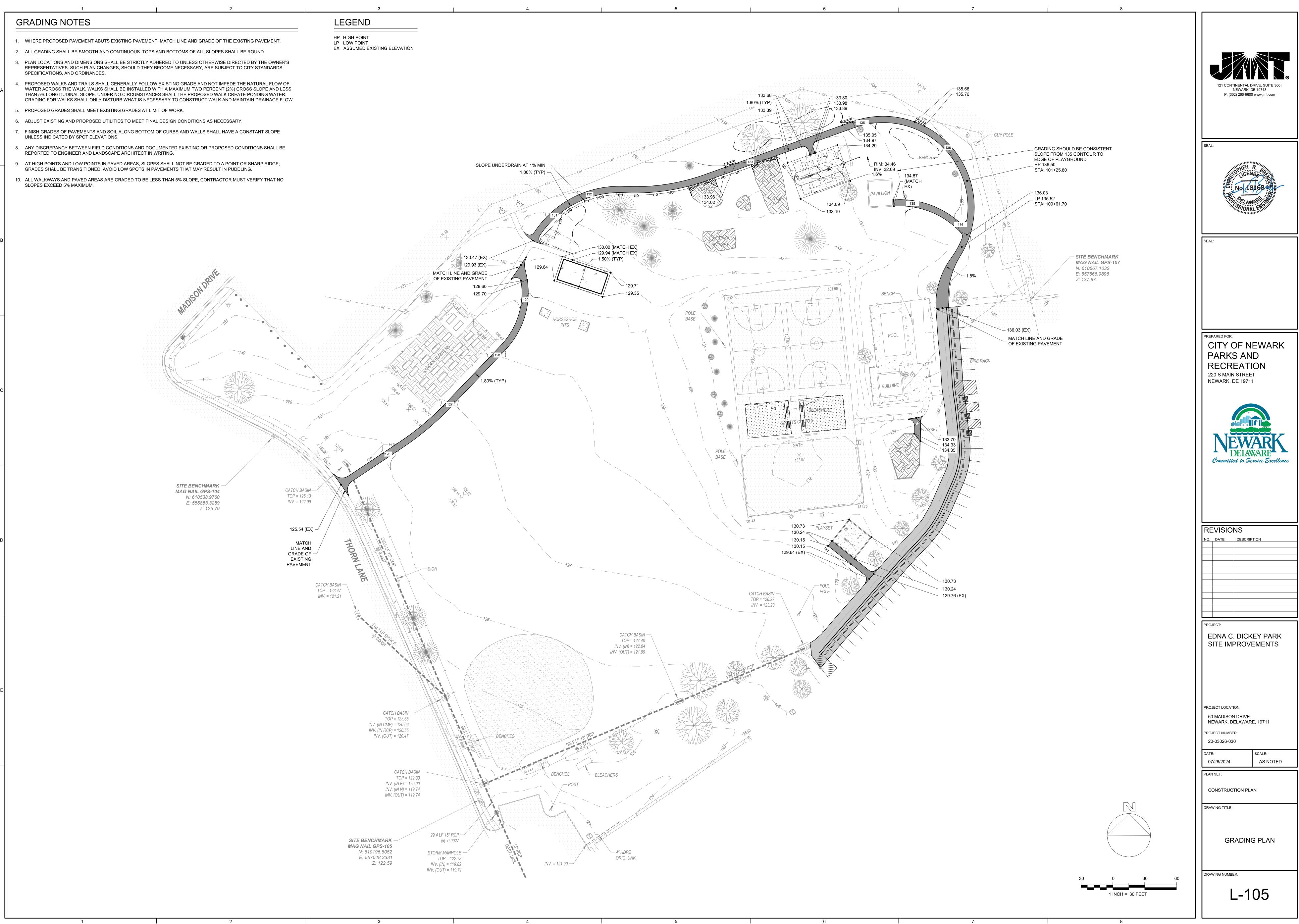




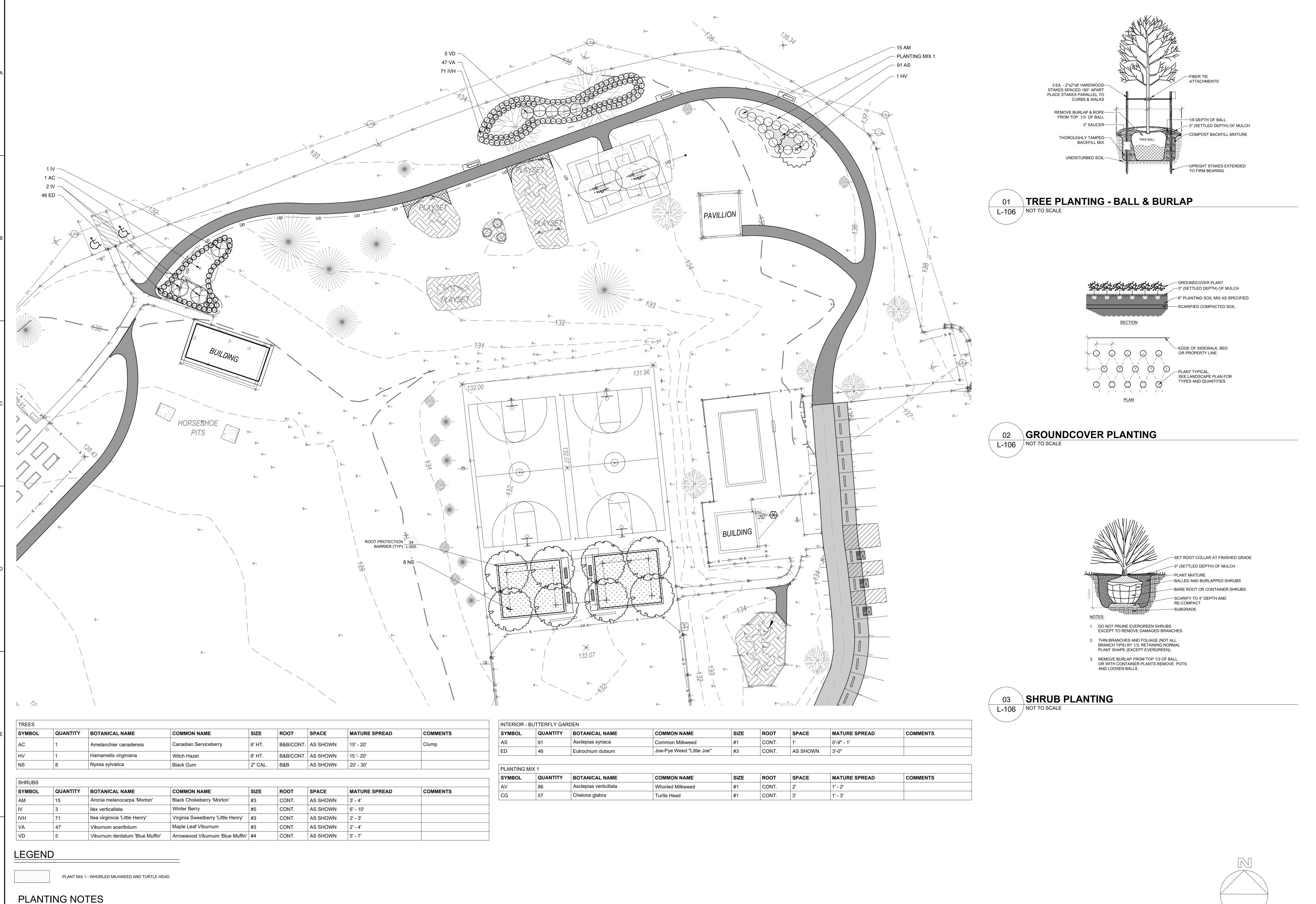
REVISIONS		
NO.	DATE	DESCRIPTION







REVISIONS			
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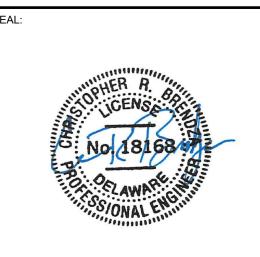


LANDSCAPE PLANS ARE ONLY FOR LANDSCAPE PLANTING PURPOSES. REFER TO OTHER PLAN SHEETS FOR GRADING, DRAINAGE, EXISTING TREES TO BE REMOVED, ETC.

4. IF THE QUANTITIES LISTED IN THE PLANTING SCHEDULE DO NOT REFLECT THE QUANTITIES SHOWN IN THE ON THE PLANTING PLAN, PROVIDE THE QUANTITY OF EACH PLANT AS INDICATED ON THE PLANTING PLAN

2. CONTRACTOR TO COORDINATE WITH LANDSCAPE ARCHITECT FOR RELOCATION OF PLANTINGS DUE TO ELECTRICAL / UTILITY CONFLICTS.





REPARED FOR:

CITY OF NEWARK PARKS AND RECREATION 220 S MAIN STREET NEWARK, DE 19711



RE	VISIO	NS
NO.	DATE	DESCRIPTION

EDNA C. DICKEY PARK SITE IMPROVEMENTS

PROJECT LOCATION:

60 MADISON DRIVE
NEWARK, DELAWARE, 19711
PROJECT NUMBER:

20-03026-030

DATE:	SCALE:
07/26/2024	AS NOTED

PLAN SET:

CONSTRUCTION PLAN

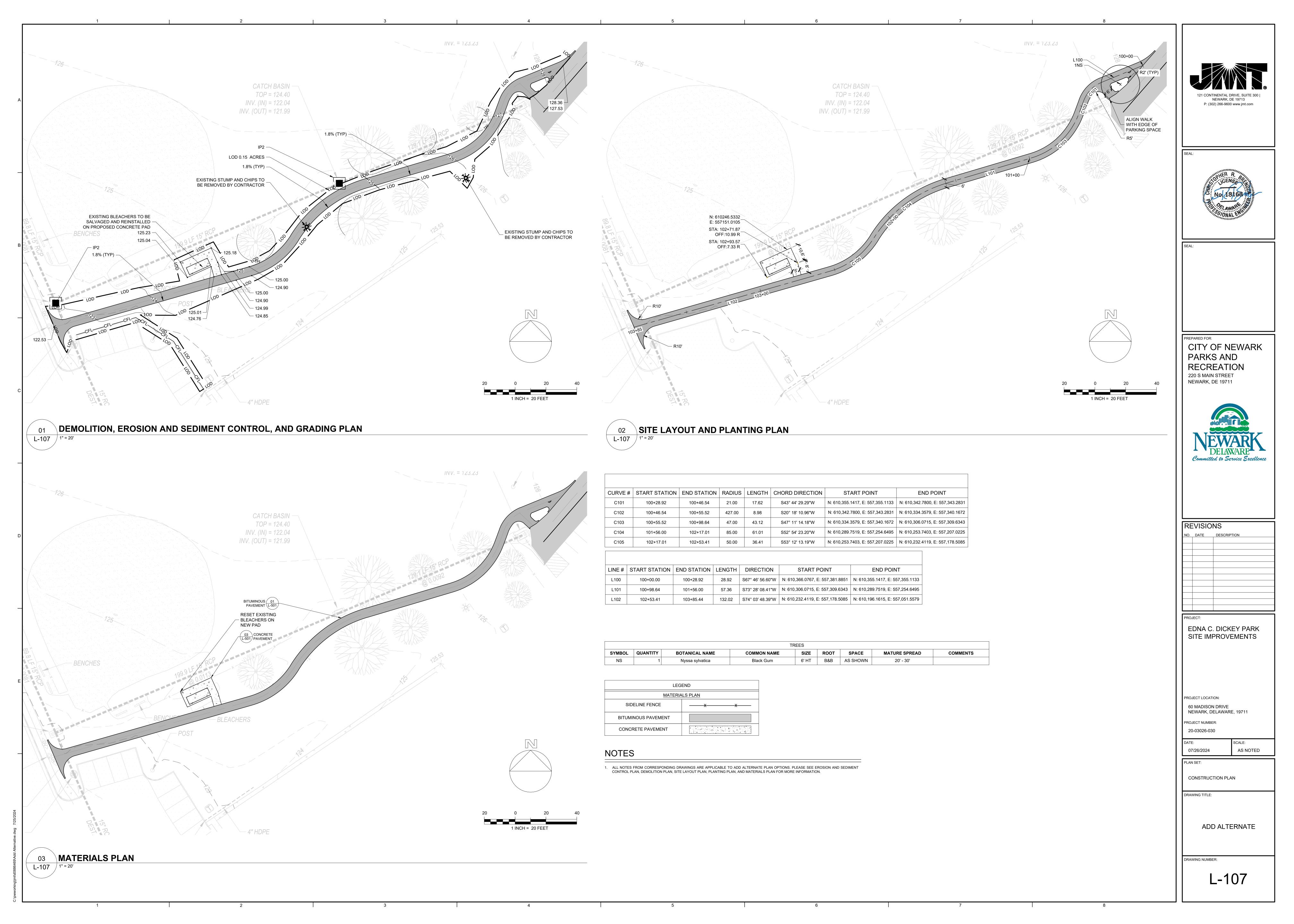
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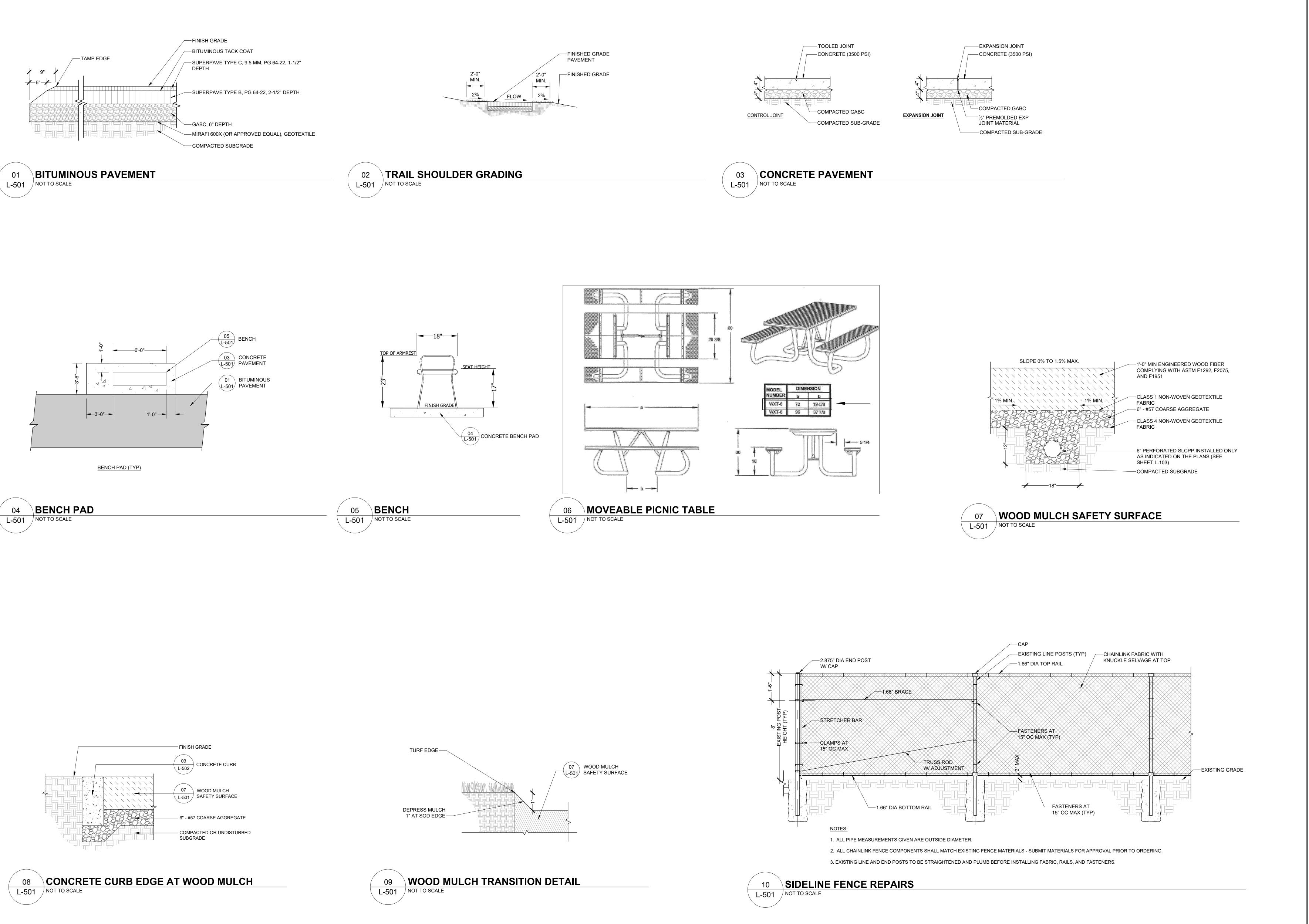
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1 INCH = 20 FEET

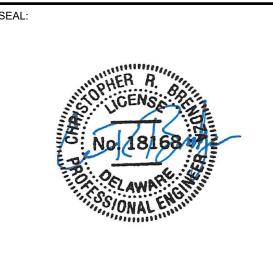
L-106

LANDSCAPE PLAN





121 CONTINENTAL DRIVE, SUITE 300 |
NEWARK, DE 19713
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PREPARED FOR:

CITY OF NEWARK

PARKS AND
RECREATION
220 S MAIN STREET
NEWARK, DE 19711



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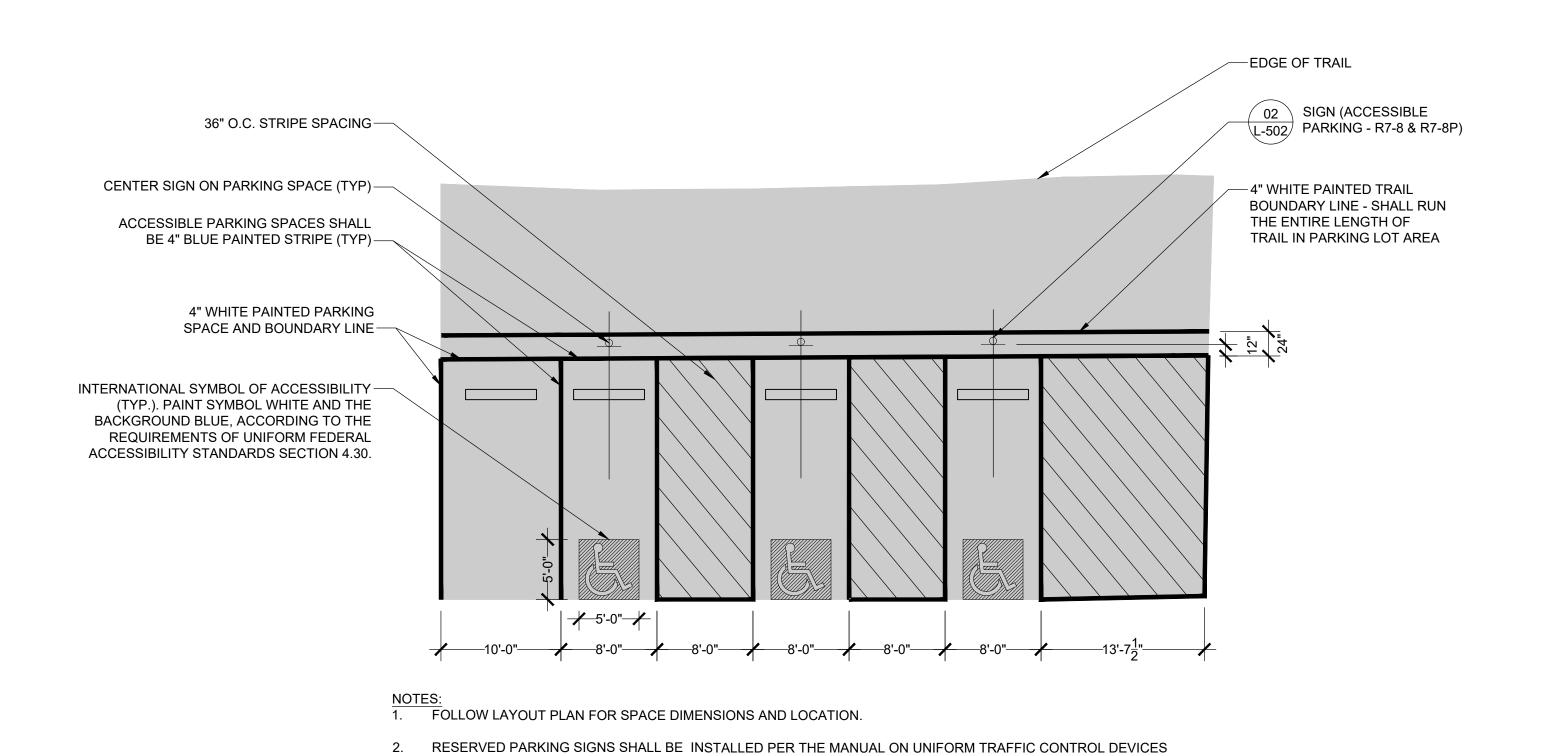
20-03026-030

CONSTRUCTION PLAN

DRAWING TITLE:

DETAILS

DRAWING NUMBER:



3. ALL PAINT SHALL BE PERMANENT EPOXY RESIN COMPLYING WITH MATERIALS, WORKMANSHIP, AND OTHER

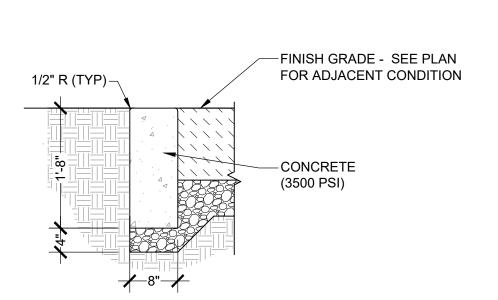
OR LATEST EDITION FOR PAVEMENT-MARKING WORK.

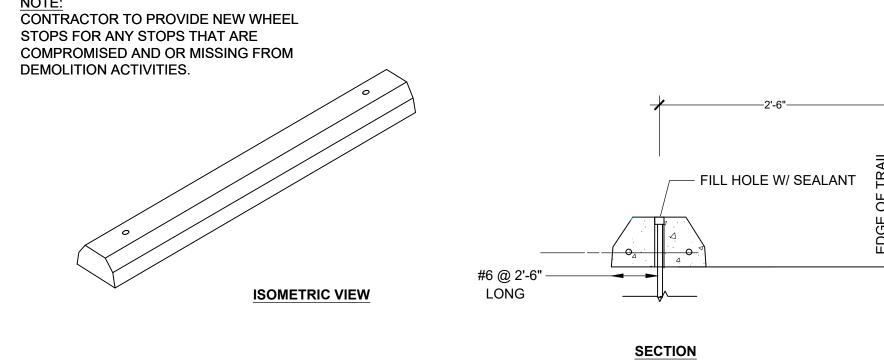
APPLICABLE REQUIREMENTS OF DELDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION 2016

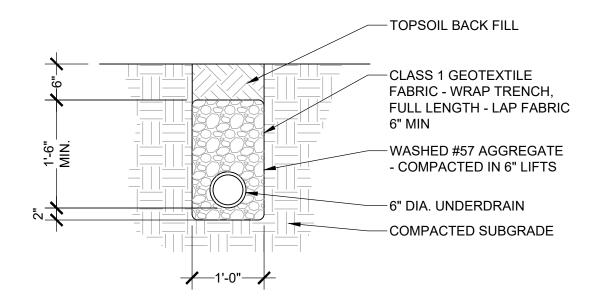
-SIGN TYPE AS RESERVED PARKING RESERVED PARKING VAN ACCESSIBLE INDICATED ON THE VAN PLANS —1 1/2" GALVANIZED SQUARE STEEL POST, CAPPED AND PAINTED (12" X 18") (6" X 12") BLACK —SLOPE FOR DRAINAGE FINISHED GRADE 1. PROVIDE SHOP DRAWINGS FOR EACH SIGN FOR REVIEW PRIOR TO ORDERING ANY SIGNS. 2. PROVIDE SHOP DRAWINGS SHOWING METHOD OF ATTACHMENT TO POST -CONNECT WITH VANDAL RESISTANT HARDWARE. 3. SIGNS SHALL MEET MUTCD STANDARDS. 4. WHERE SIGN IS INSTALLED IN PAVEMENT, TOP OF FOOTER SHALL BE INSTALLED FLUSH WITH FINISHED PAVEMENT ELEVATION. —CONCRETE FOOTER 1'-0" MIN.

01 ACCESSIBLE PARKING
L-502 NOT TO SCALE









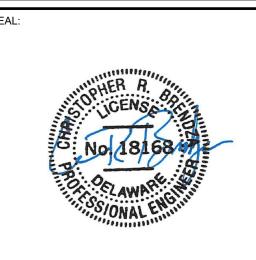
03 CONCRETE CURB (TYP)
L-502 NOT TO SCALE

04 CONCRETE WHEEL STOP REINSTALLATION
L-502 NOT TO SCALE

EXISTING WHEEL STOP

05 UNDERDRAIN (TURF)
L-502 NOT TO SCALE

121 CONTINENTAL DRIVE, SUITE 300 | NEWARK, DE 19713
P: (302) 266-9600 www.jmt.com



PREPARED FOR:

CITY OF NEWARK

PARKS AND

RECREATION

220 S MAIN STREET

NEWARK, DE 19711



RE	VISIO	NS
NO.	DATE	DESCRIPTION

PROJECT:

EDNA C. DICKEY PARK
SITE IMPROVEMENTS

PROJECT LOCATION:

60 MADISON DRIVE
NEWARK, DELAWARE, 19711

PROJECT NUMBER:

20-03026-030

DATE: SCALE: AS NOTED

PLAN SET:

CONSTRUCTION PLAN

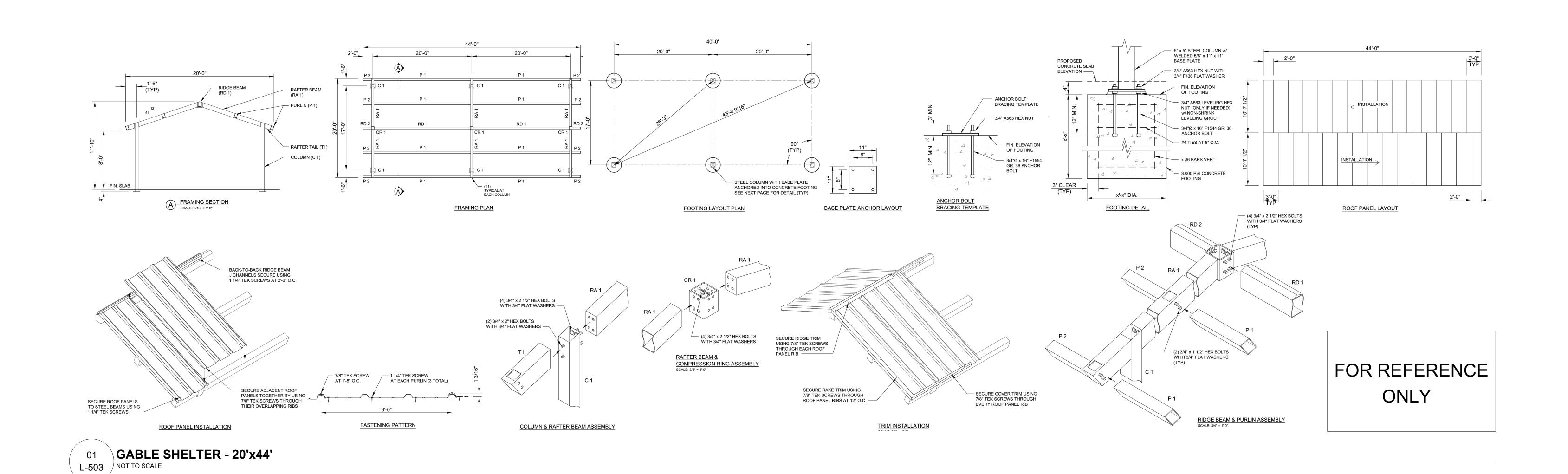
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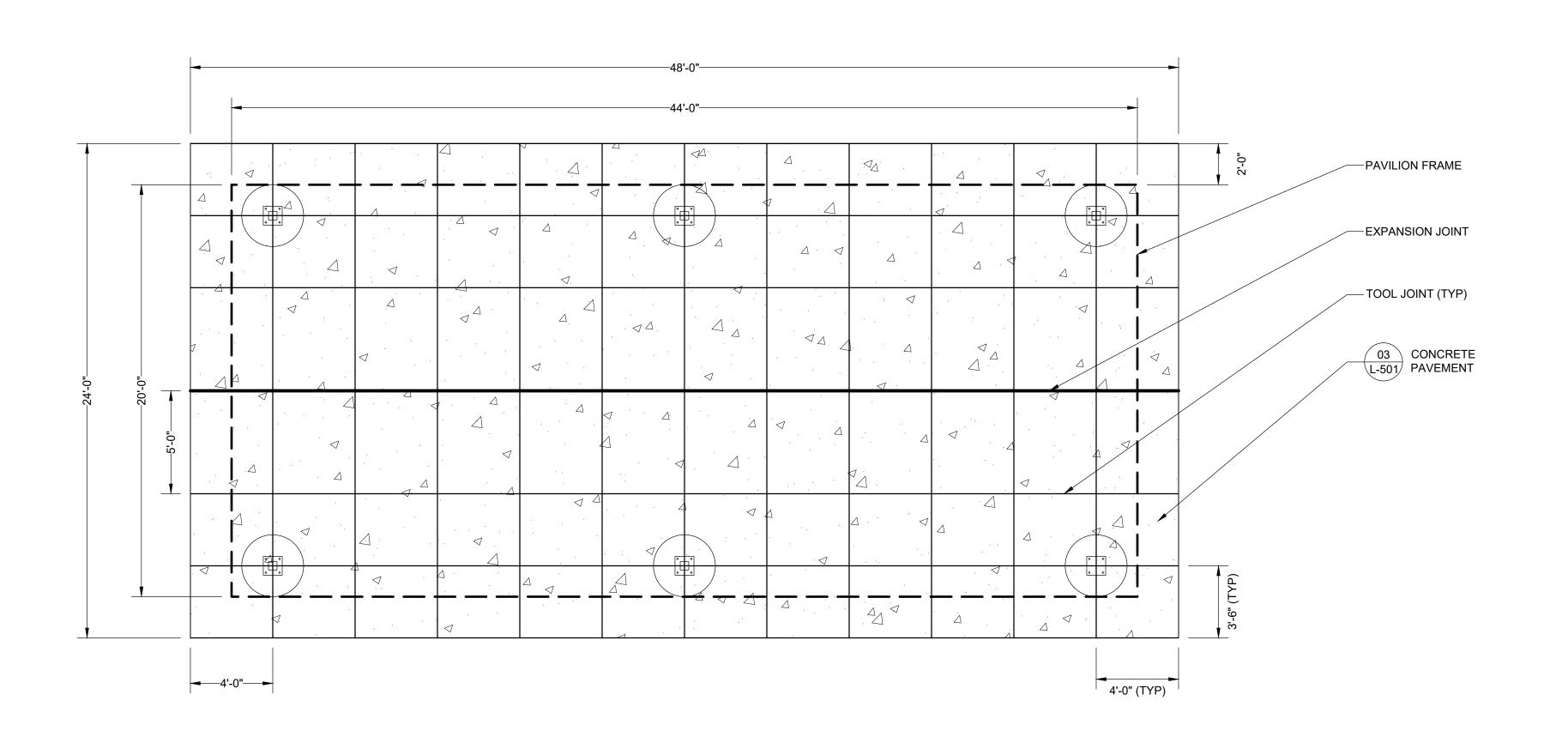
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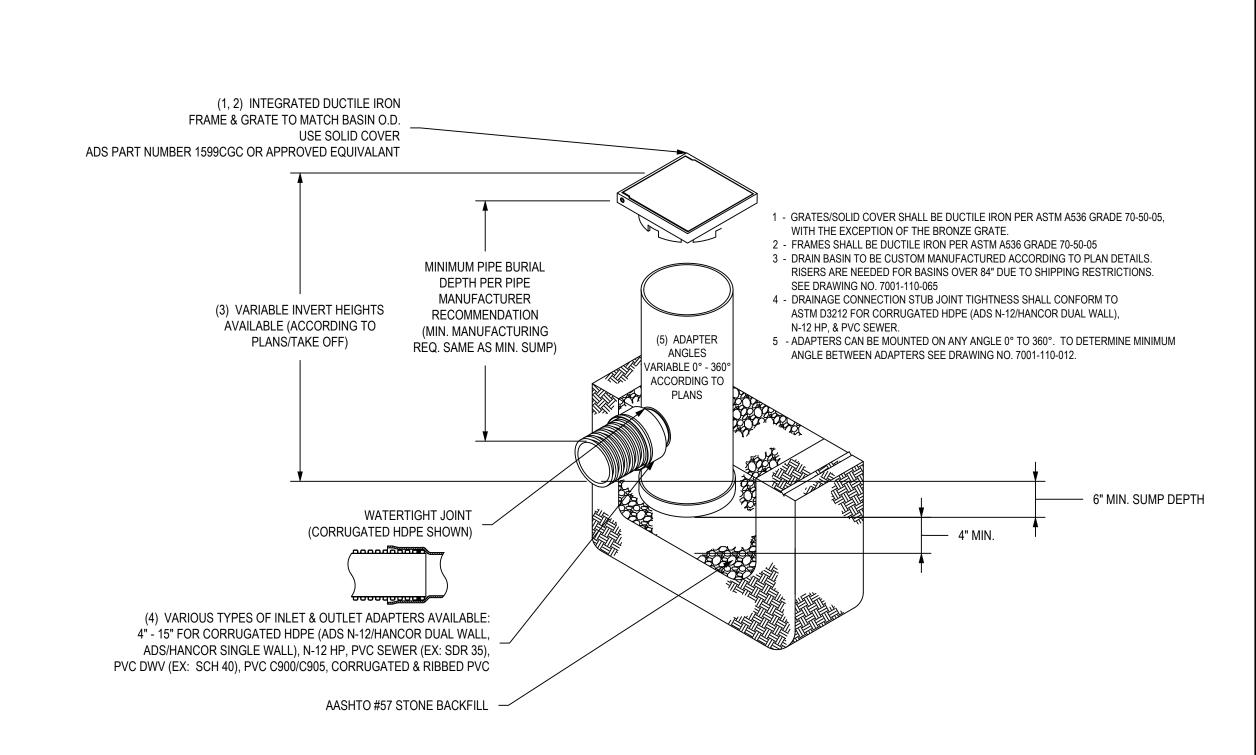
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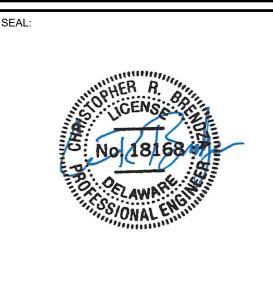
02 SHELTER BASE JOINT PLAN
L-503 NOT TO SCALE

03 12" CATCH BASIN
L-503 NOT TO SCALE

NOTES

- INFORMATION FOR SHELTER IS FOR REFERENCE AND BIDDING PURPOSES ONLY. SEALED DRAWINGS BY AN ENGINEER LICENSED IN THE STATE OF DELAWARE SHALL BE PROVIDED BY CONTRACTOR FOR INSTALLATION.
- A LICENSED ENGINEER IN THE STATE OF DELAWARE MUST PERFORM A FOUNDATION DESIGN AND BASE CONNECTION DETAILS TO BE SUBMITTED WITH SEALED DRAWING PACKAGE.
- 3. PAVILION TO INCLUDE KNOCKOUTS IN EACH COLUMN FOR ELECTRIC OUTLETS AND RIDGE BEAMS FOR SECURITY LIGHT INSTALLATION.





PREPARED FOR:

CITY OF NEWARK
PARKS AND
RECREATION
220 S MAIN STREET
NEWARK, DE 19711



NO.	DATE	DESCRIPTION	

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60 MADISON DRIVE
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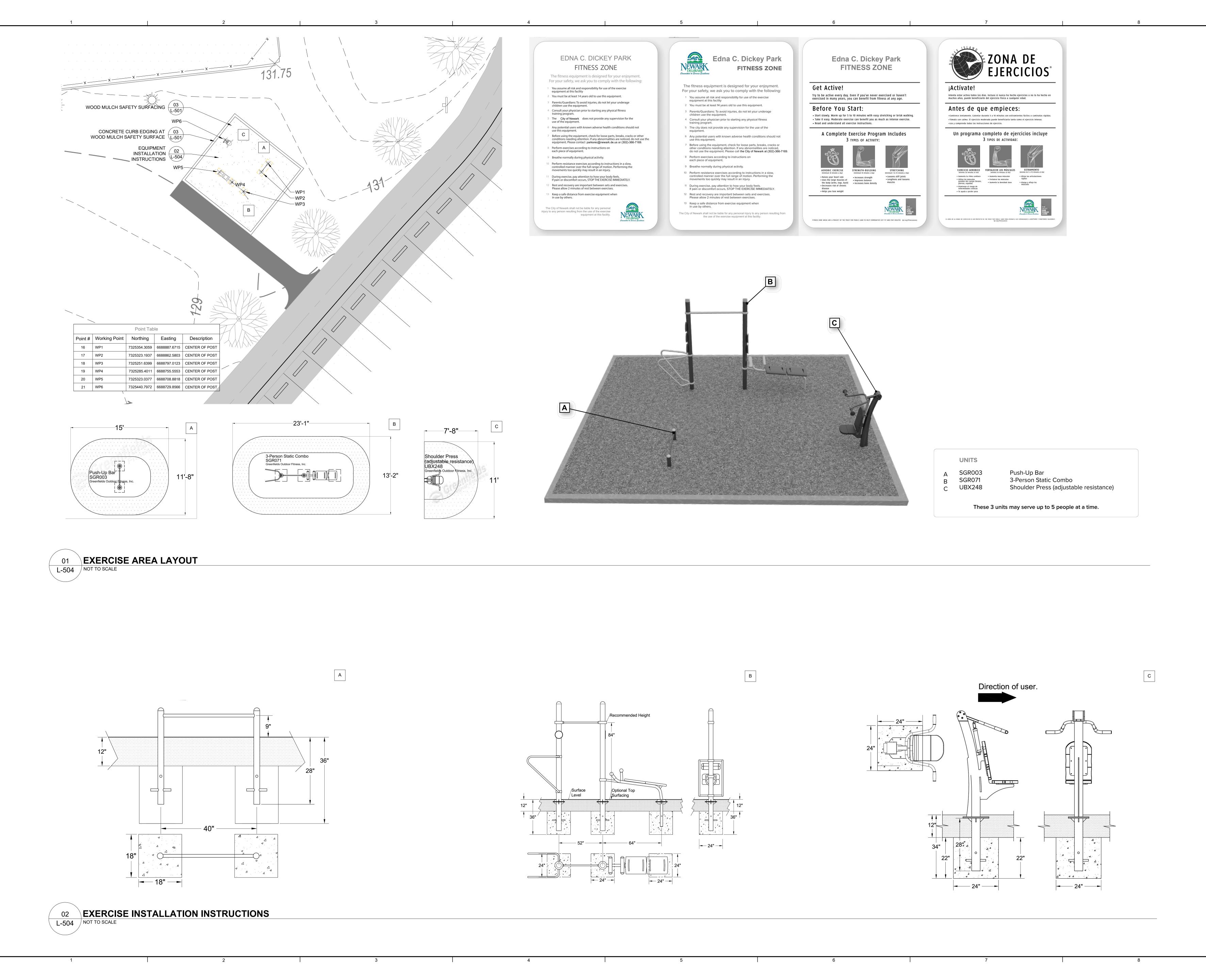
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CONSTRUCTION PLAN

DRAWING TITLE:

DETAILS

DRAWING NUMBER:



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CITY OF NEWARK PARKS AND **RECREATION** 220 S MAIN STREET NEWARK, DE 19711



REVISIONS NO. DATE DESCRIPTION

> EDNA C. DICKEY PARK SITE IMPROVEMENTS

PROJECT LOCATION: 60 MADISON DRIVE NEWARK, DELAWARE, 19711 PROJECT NUMBER:

SCALE: AS NOTED 07/26/2024

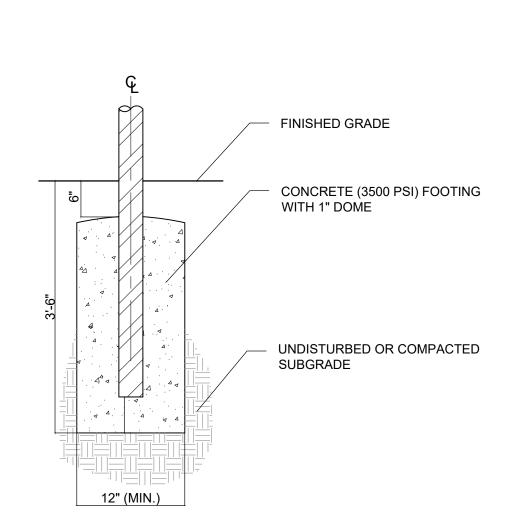
CONSTRUCTION PLAN

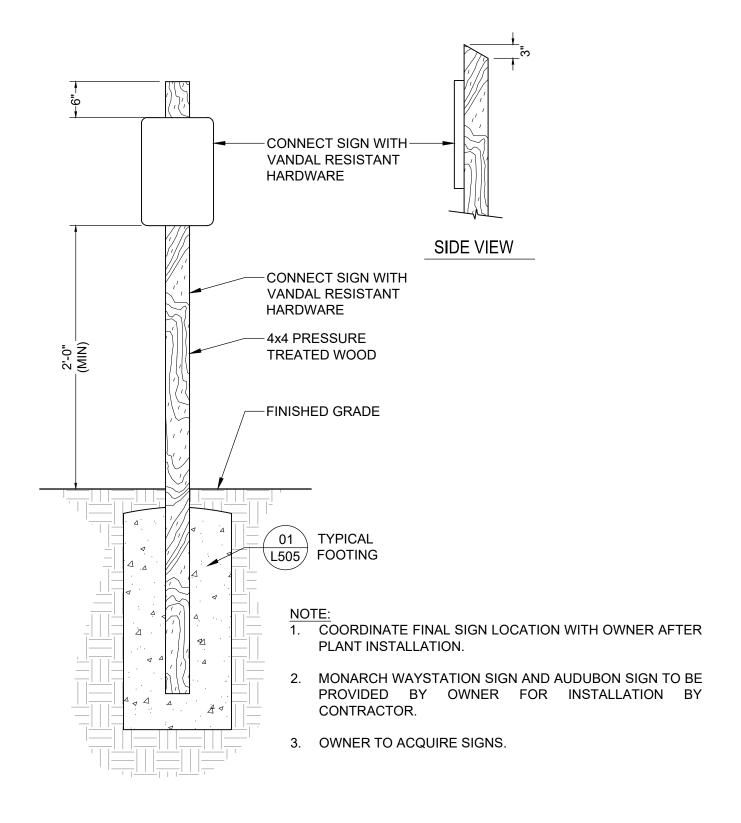
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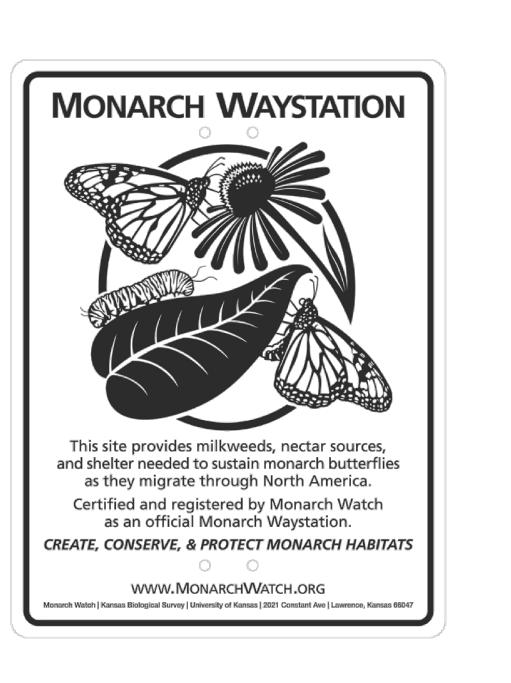
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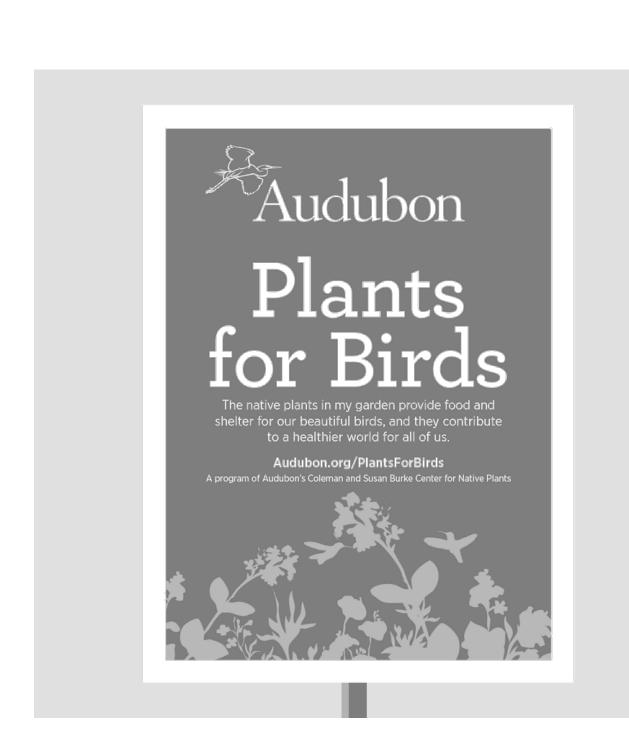
20-03026-030

DETAILS







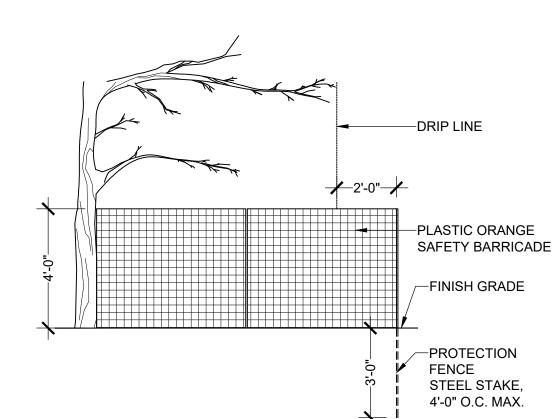


01 TYPICAL FOOTER
L-505 NOT TO SCALE

02 HABITAT GARDEN SIGNS
L-505 NOT TO SCALE

TREE PROTECTION NOTES

- 1. ALL EXISTING TREES TO REMAIN SHALL BE PROTECTED WITH TREE PROTECTION FENCING. LOCATION OF TREE PROTECTION FENCE IS INDICATED ON DRAWINGS.
- 2. TREE PROTECTION FENCE SHALL BE MAINTAINED FOR THE DURATION OF THE CONSTRUCTION PROCESS. IF TREE PROTECTION IS MOVED OR REMOVED FOR THE INSTALLATION OF THE WORK REPLACE IT IMMEDIATELY AT THE COMPLETION OF THE WORK.
- 3. EXERCISE EXTREME CAUTION IN REMOVING PAVEMENT WITHIN DRIP LINE OF EXISTING TREES TO REMAIN.
- 4. EXERCISE EXTREME CAUTION WHEN REMOVING TREES, ADJACENT TO EXISTING TREES TO REMAIN. USE HAND METHODS IN CANOPIES AND ROOT ZONES OF EXISTING TREES.
- 5. TRENCHING OR EXCAVATION WITHIN THE TREE PROTECTION FENCE SHALL BE COMPLETED WITH EXTREME CARE. USE HAND TOOLS ONLY.
- 6. AVOID DAMAGING EXISTING TREES. DAMAGE INCLUDES BUT IS NOT LIMITED TO: CUTTING, BREAKING, SKINNING OR COMPACTING OF ROOTS, SKINNING AND BRUISING OF BARK AND BREAKING OF BRANCHES AND LIMBS.
- 7. CONTRACTOR SHALL NOT PARK OR STORE EQUIPMENT AND SUPPLIES WITHIN THE TREE PROTECTION FENCING.



DEEP ROOT BARRIER, SEE MATERIALS
PLAN FOR LIMITS,
PRODUCT # UB - 482 - INSTALL PER
MANUFACTURERS
RECOMMENDATIONS

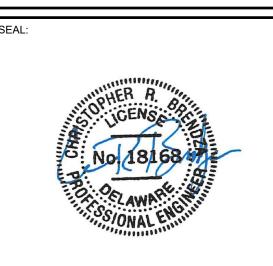
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1 WP1 729444-1970 BRERNE 2713 CENTER OF POST
2 WP2 729454-1970 BRERNE 2713 CENTER OF POST
3 WP3 7295505 510 RERNES 2706 CENTER OF POST
4 WP4 7299515 7853 BEESTA 2895 CENTER OF POST
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03 TREE PROTECTION FENCE
L-505 NOT TO SCALE

04 ROOT PROTECTION BARRIER

05 TWIN SWING LAYOUT INFORMATION
L-505 NOT TO SCALE

11984B SCOTTH GOVERNORS FAVE I SEITE B-101 NDOWERS, DE-199043 P?: (3002) 6086-3830 | www.jmt.com



<u>:</u>

PREPARED FOR:

CITY OF NEWARK

PARKS AND

RECREATION

220 S MAIN STREET

NEWARK, DE 19711



REVISIONS

NO. DATE DESCRIPTION

EDNA C. DICKEY PARK
SITE IMPROVEMENTS

PROJECT LOCATION:

60 MADISON DRIVE
NEWARK, DELAWARE, 19711
PROJECT NUMBER:

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07/26/2024 AS NOTED

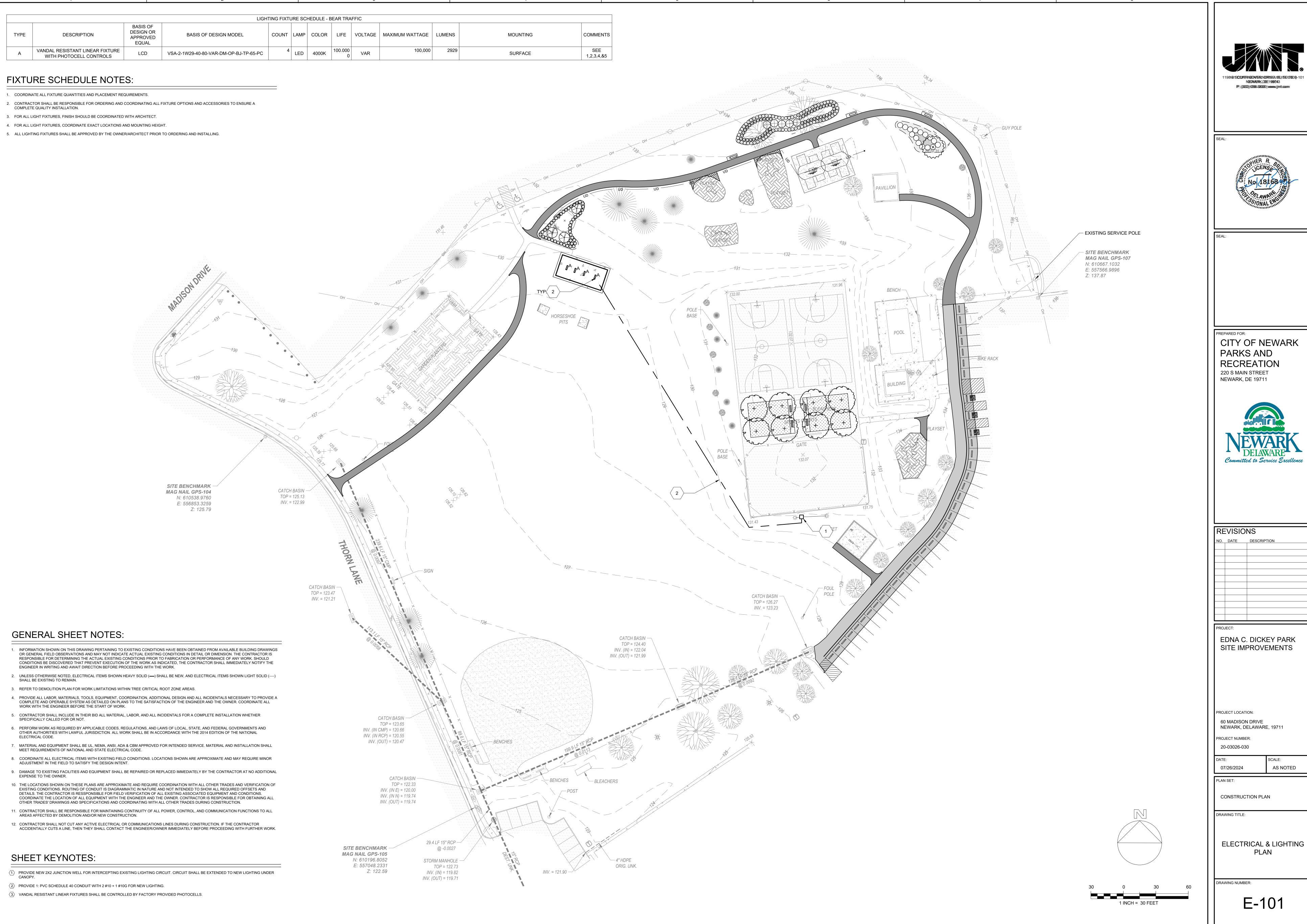
CONSTRUCTION PLAN

20-03026-030

DRAWING TITLE:

DETAILS

DRAWING NUMBER:







CITY OF NEWARK



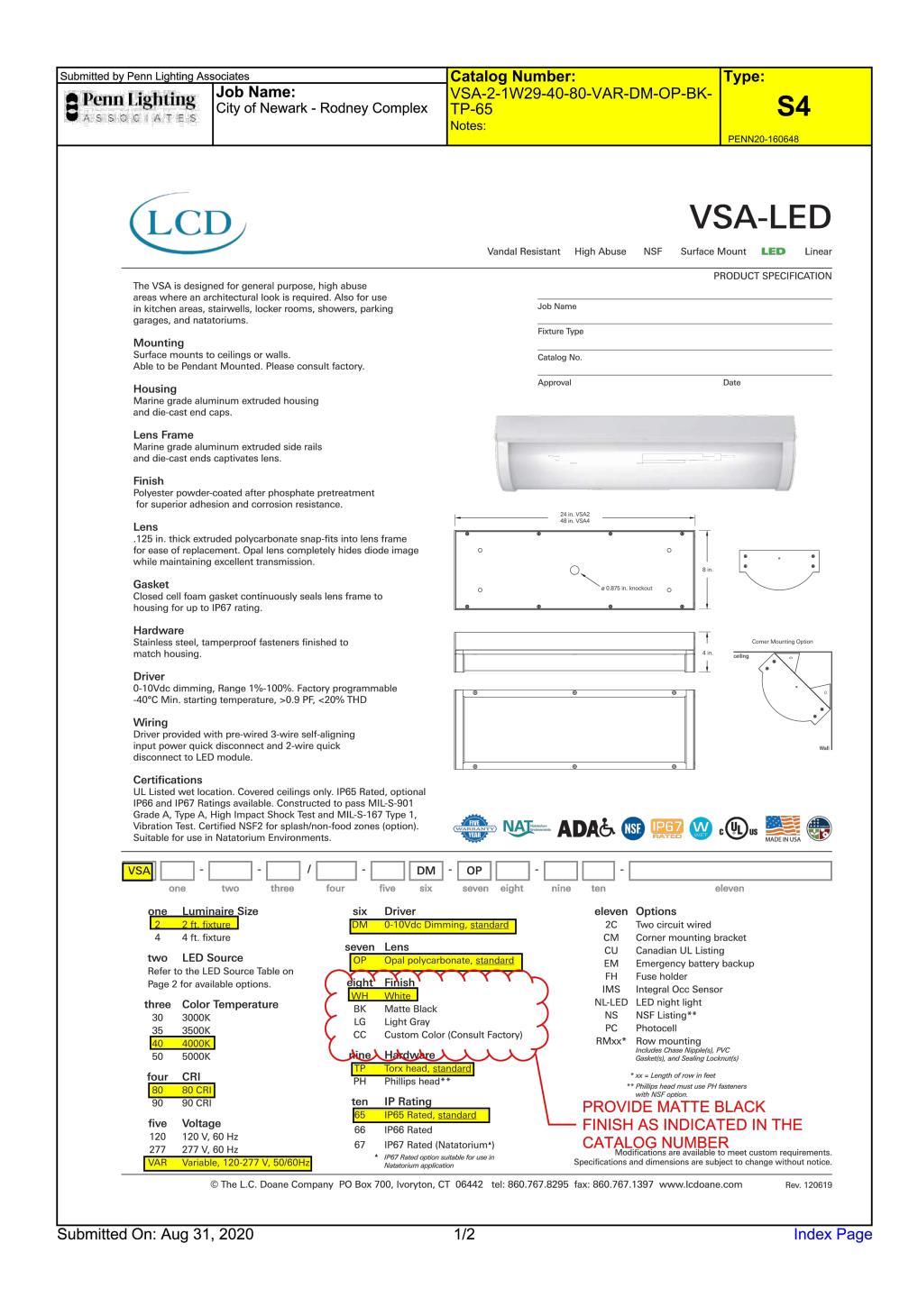
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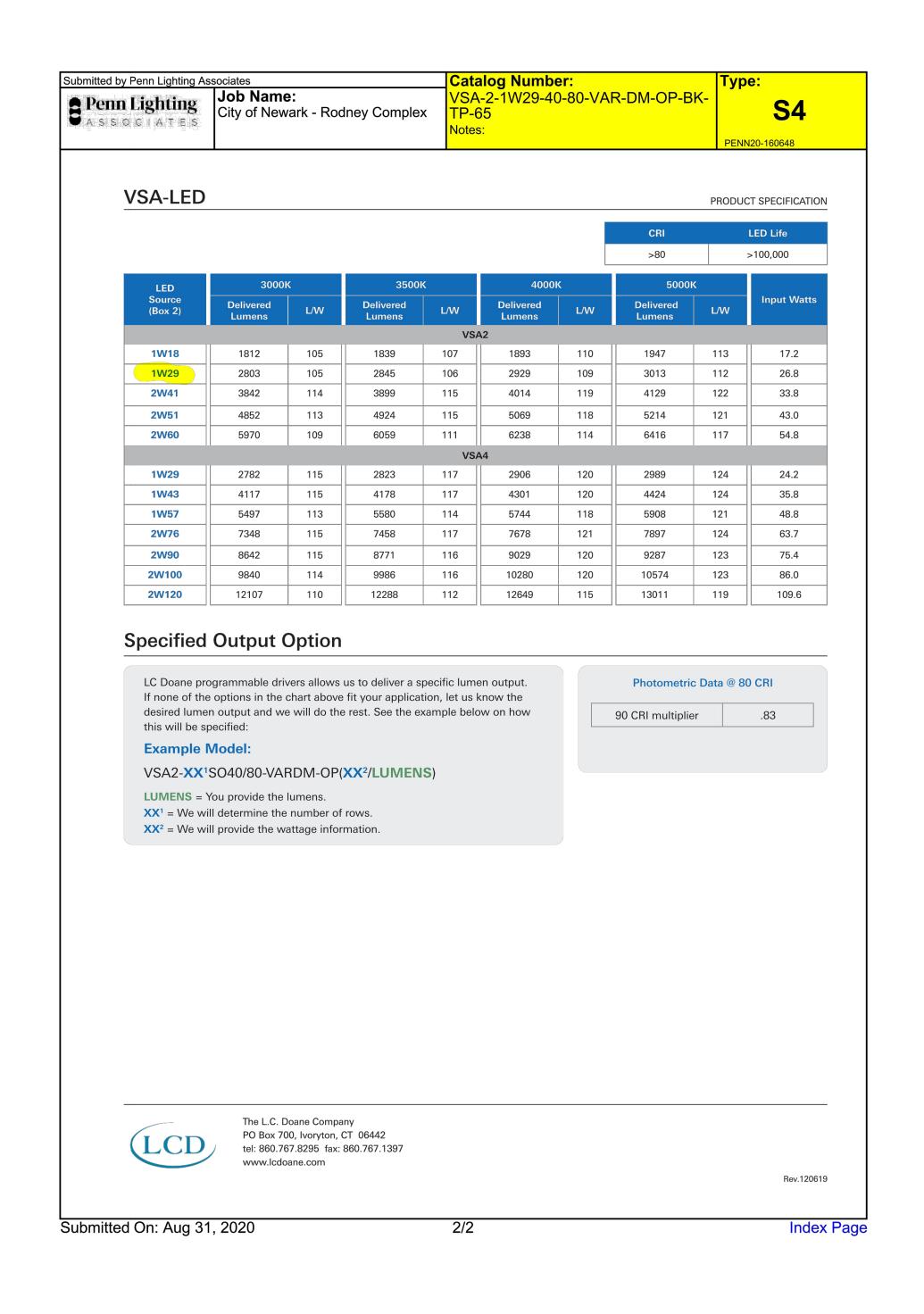
EDNA C. DICKEY PARK SITE IMPROVEMENTS

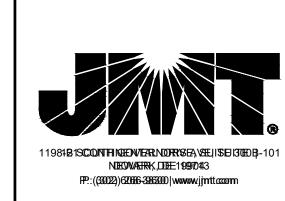
NEWARK, DELAWARE, 19711

AS NOTED

E-101









CITY OF NEWARK PARKS AND RECREATION 220 S MAIN STREET NEWARK, DE 19711



DELAWARE Committed to Service Excellence

PART 1 - GENERAL 1.1 REFERENCES

A. EXAMINE DRAWINGS AND OTHER SECTIONS OF SPECIFICATIONS FOR REQUIREMENTS THAT AFFECT WORK OF THIS SECTION. B. AS USED IN THIS SECTION, "PROVIDE" MEANS "FURNISH AND INSTALL" AND "POS" MEANS PROVIDED UNDER OTHER SECTIONS." "FURNISH" MEANS "TO PURCHASE AND DELIVER TO THE PROJECT SITE COMPLETE WITH EVERY NECESSARY APPURTENANCE AND SUPPORT." AND "INSTALL" MEANS "TO UNLOAD" AT THE DELIVERY POINT AT THE SITE AND PERFORM EVERY OPERATION NECESSARY TO ESTABLISH SECURE MOUNTING AND CORRECT OPERATION AT THE PROPER LOCATION IN THE PROJECT."

C. PERFORM WORK AND PROVIDE MATERIAL AND EQUIPMENT AS SHOWN ON DRAWINGS AND AS SPECIFIED OR INDICATED IN THIS SECTION OF THE SPECIFICATIONS. COMPLETELY COORDINATE WORK OF THIS SECTION WITH WORK OF OTHER TRADES AND PROVIDE A COMPLETE AND FULLY FUNCTIONAL INSTALLATION. DRAWINGS AND SPECIFICATIONS FORM COMPLIMENTARY REQUIREMENTS: PROVIDE WORK SPECIFIED & NOT SHOWN, AND WORK SHOWN AND NOT SPECIFIED AS THOUGH EXPLICITLY REQUIRED BY BOTH. ALTHOUGH WORK IS NOT SPECIFICALLY SHOWN OR SPECIFIED, PROVIDE SUPPLEMENTARY OR MISCELLANEOUS ITEMS, APPURTENANCES, DEVICES AND MATERIALS OBVIOUSLY NECESSARY FOR A SOUND, SECURE AND COMPLETE INSTALLATION. REMOVE ALL DEBRIS CAUSED BY CONTRACTORS WORK.

D. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED IN CONTRACT. IT IS NOT INTENDED TO SPECIFY OR TO SHOW EVERY OFFSET, FITTING OR COMPONENT; HOWEVER, CONTRACT DOCUMENTS REQUIRE COMPONENTS AND MATERIALS WHETHER OR NOT INDICATED OR SPECIFIED AS NECESSARY TO MAKE INSTALLATION COMPLETE AND OPERATIONAL. E. PERFORM WORK STRICTLY AS REQUIRED BY RULES, REGULATIONS, STANDARDS, CODES, ORDINANCES, AND LAWS OF LOCAL, STATE, AND

FEDERAL GOVERNMENTS, AND OTHER AUTHORITIES THAT HAVE LAWFUL JURISDICTION. F. GIVE NOTICES, FILE PLANS, OBTAIN PERMITS AND LICENSES (IF REQUIRED), PAY FEES AND BACK CHARGES AND OBTAIN NECESSARY

APPROVALS FROM AUTHORITIES THAT HAVE JURISDICTION. G. AS WORK PROGRESSES AND FOR DURATION OF PROJECT, MAINTAIN COMPLETE AND SEPARATE SET OF PRINTS OF CONTRACT DRAWINGS AT JOB SITE AT ALL TIMES. RECORD WORK COMPLETED AND ALL CHANGES FROM ORIGINAL CONTRACT DRAWINGS CLEARLY AND ACCURATELY

INCLUDING WORK INSTALLED AS A MODIFICATION OR ADDITION TO THE ORIGINAL DESIGN

H. WORK SHALL INCLUDE, BUT SHALL NOT BE LIMITED TO THE FOLLOWING:

WIRE AND CABLE. 4. BRANCH CIRCUIT WIRING.

. REMOVE, EXTEND, ALTER AND RECONNECT EXISTING CONDUITS AS DIRECTED BY ENGINEERING. RECONNECT EXISTING CONDUIT THAT IS CUT AND DISCONNECTED TO ACCOMMODATE WORK, PULL IN NEW WIRES BETWEEN NEAREST ACCESSIBLE OUTLETS INTENDED FOR REUSE PROVIDE NEW CONDUIT WHERE WIRE CANNOT BE PULLED IN EXISTING. CONNECT NEW AND EXISTING WORK TO FUNCTION AS COMPLETE, CONTINUOUSLY GROUNDED SYSTEM. REMOVE CONDUIT AND EQUIPMENT NOT INTENDED FOR REUSE AND STORE WHERE DIRECTED. USE CONDUIT EXPOSED BY WORK OF THIS CONTRACT IN CONJUNCTION WITH NEAREST OUTLET INTENDED FOR REUSE AS DIRECTED.

1.2 CONTRACT DOCUMENTS

1.3 SUBMITTALS

A. WORK TO BE PERFORMED UNDER THIS SECTION IS SHOWN PRIMARILY ON THE FOLLOWING ELECTRICAL DRAWINGS: E-101 & E-102. B. LISTING OF DRAWINGS DOES NOT LIMIT RESPONSIBILITY OF DETERMINING FULL EXTENT OF WORK REQUIRED BY CONTRACT DOCUMENTS REFER TO MECHANICAL, ELECTRICAL, AND OTHER DRAWINGS AND OTHER SECTIONS THAT INDICATE TYPES OF CONSTRUCTION IN WHICH WORK SHALL BE INSTALLED AND WORK OF OTHER TRADES WITH WHICH WORK OF THIS SECTION MUST BE COORDINATED.

C. EXCEPT WHERE MODIFIED BY A SPECIFIC NOTATION TO THE CONTRARY, IT SHALL BE UNDERSTOOD THAT THE INDICATION AND/OR THE ITEM, REGARDLESS OF WHETHER OR NOT THIS INSTRUCTION IS EXPLICITLY STATED AS PART OF THE INDICATION OR DESCRIPTION. D. ITEMS REFERRED TO IN SINGULAR NUMBER IN CONTRACT DOCUMENTS SHALL BE PROVIDED IN QUANTITIES NECESSARY TO COMPLETE

E. DRAWINGS ARE DIAGRAMMATIC. THEY ARE NOT INTENDED TO BE ABSOLUTELY PRECISE; THEY ARE NOT INTENDED TO SPECIFY OR TO SHOW EVERY OFFSET, FITTING, AND COMPONENT, THE PURPOSE OF THE DRAWINGS IS TO INDICATE A SYSTEMS CONCEPT. THE MAIN COMPONENTS OF THE SYSTEMS, & THE APPROXIMATE GEOMETRICAL RELATIONSHIPS, BASED ON THE SYSTEMS CONCEPT, THE MAIN COMPONENTS, AND THE APPROXIMATE GEOMETRICAL RELATIONSHIPS, THE CONTRACTOR SHALL PROVIDE ALL OTHER COMPONENTS AND MATERIALS NECESSARY TO MAKE THE SYSTEMS FULLY COMPLETE AND OPERATIONAL.

A. WITHIN TWO WEEKS (EXCEPT AS NOTED OTHERWISE) AFTER AWARD OF CONTRACT AND BEFORE ORDERING MATERIALS OR EQUIPMENT. SUBMIT LIST OF PROPOSED MATERIALS AND EQUIPMENT AND INDICATE MANUFACTURER'S NAMES. ADDRESSES AND IDENTIFYING DATA. NO CONSIDERATION WILL BE GIVEN TO PARTIAL LISTS SUBMITTED OUT OF SEQUENCE.

B. MATERIAL AND EQUIPMENT REQUIRING SHOP DRAWING AND PRODUCT DATA SUBMITTAL SHALL INCLUDE, BUT SHALL NOT BE LIMITED TO: 4. CONDUIT AND RACEWAYS WIRE AND CABLE

PART 2 - PRODUCTS 2.1 RACEWAYS

A. ELECTRICAL METALLIC TUBING (EMT) SHALL BE ELECTRO-GALVANIZED AND MANUFACTURED IN ACCORDANCE WITH

B. FLEXIBLE METAL CONDUIT SHALL CONSIST OF CONTINUOUS LENGTHS OF SPIRAL WOUND & INTERLOCKED GALVANIZED STEEL, MANUFACTURED IN ACCORDANCE WITH UL 1. FLEXIBLE METAL CONDUIT SHALL BE LIMITED TO 6 LINEAR FEET OR LESS AT LIGHT FIXTURES. SHORT SECTION ARE PERMITTED AT VIBRATING EQUIPMENT SUCH AS

C. CONDUIT EXPANSION FITTINGS SHALL BE THREADED HOT-DIPPED GALVANIZED MALLEABLE IRON WITH INTERNAL

D. PROVIDE THREADED MALLEABLE IRON OR STEEL CONNECTORS AND COUPLINGS WITH INSULATED THROATS; MANUFACTURED ELBOWS; LOCKNUTS; AND PLASTIC OR BAKELITE BUSHINGS AT TERMINATION'S, AS NECESSARY. COUPLINGS AND CONNECTORS SHALL BE GLAND AND RING COMPRESSION. COMPRESSION COUPLINGS & CONNECTORS SHALL FORM POSITIVE GROUND. BUSHINGS FOR RIGID STEEL AND CONNECTORS FOR EMT SHALL HAVE INSULATING INSERTS THAT MEET REQUIREMENTS OF UL 514 FLAME TEST.

E. MINIMUM CONDUIT SIZE SHALL BE 3/4" DIAMETER UNLESS SPECIFIED OTHERWISE.

F. A MAXIMUM OF THREE BRANCH CIRCUITS PER CONDUIT WITH WIRING DERATED AS PER NEC TABLE 310.15. 2.3 JUNCTION BOXES AND PULL BOXES

A. PROVIDE CODE GAUGE GALVANIZED STEEL JUNCTION AND PULL BOXES FOR CONDUIT 1-1/4" TRADE SIZE AND LARGER, WHERE INDICATED AND AS NECESSARY TO FACILITATE INSTALLATION, OF REQUIRED DIMENSIONS, WITH ACCESSIBLE, REMOVABLE SCREW-ON COVERS. PROVIDE JUNCTION AND PULL BOXES IN SPECIAL SIZES AND SHAPES DETERMINED IN FIELD WHERE NECESSARY.

B. JUNCTION BOX COVERS SHALL BE ACCESSIBLE. DO NOT INSTALL JUNCTION BOXES ABOVE SUSPENDED CEILINGS EXCEPT WHERE CEILING IS REMOVABLE OR WHERE ACCESS PANEL IS PROVIDED. 2.4 WIRE AND CABLE (600 V INSULATION)

A. PROVIDE SINGLE CONDUCTOR, ANNEALED COPPER WIRE AND CABLE WITH INSULATION RATED 600 V, OF SIZES SPECIFIED AND SCHEDULED ON DRAWINGS, FOR SECONDARY SERVICE, FEEDERS, BRANCH AND SYSTEM WIRING. WIRE SIZES SHOWN AND SPECIFIED ARE AMERICAN WIRE GAUGE FOR COPPER.

B. ARMORED CABLE SHALL BE TYPE AC 600 V COPPER WITH FULL SIZED INSULATED GROUND CONDUCTOR. USE IS

RESTRICTED BY REQUIREMENTS OF PARAGRAPH ENTITLED WIRING METHODS IN PART 3 OF THIS SECTION. MINIMUM SIZE SHALL BE #12 UNLESS SPECIFIED OTHERWISE

C. WIRE #8 AND LARGER SHALL BE STRANDED; #10 AND SMALLER SHALL BE SOLID. WIRE AND CABLE SHALL HAVE THWN-THHN INSULATION RATED 75°C.

D. WIRING WITHIN LIGHT FIXTURES AND OTHER HIGH-TEMPERATURE EQUIPMENT SHALL HAVE 150°C INSULATION AS

REQUIRED BY NEC. E. SPLICES AND TERMINATIONS 1. MAKE SPLICES IN BRANCH CIRCUIT WIRING WITH UL LISTED, SOLDERLESS CONNECTORS RATED 600V, OF SIZES AND

WIRES. SPLICE CONNECTORS SHALL BE SCREW ON. INSULATE SPLICES WITH INTEGRAL COVERS OR WITH PLASTIC

OR RUBBER FRICTION TAPE TO PRESERVE CHARACTERISTICS OF WIRE AND CABLE INSULATION. PROVIDE STANDARD BOLT ON LUGS WITH HEX SCREWS TO ATTACH COPPER WIRE AND CABLE TO PANELBOARDS AND 1. MAXIMUM HEAT OUTPUT: 5W/FT.

AMPACITY OF SPLICES AND CONNECTORS SHALL BE EQUAL TO THOSE OF ASSOCIATED WIRES AND CABLES. 2.5 COLOR CODING

A. COLOR CODE SECONDARY SERVICE, FEEDERS AND BRANCH CIRCUIT CONDUCTORS AS FOLLOWS: 208Y/120V BLACK FOR PHASE A,

RED FOR PHASE B, BLUE FOR PHASE C. WHITE FOR NEUTRA PROVIDE WITH SOLID GREEN GROUNDING CONDUCTOR. B. BRANCH CIRCUIT CONDUCTORS #12 AND #10 SHALL HAVE SOLID COLOR COMPOUND, SOLID COLOR COATING. NEUTRALS AND EQUIPMENT GROUNDS SHALL HAVE SOLID COMPOUND OR SOLID COLOR COATING (WHITE, GRAY AND GREEN). EXCEPT THAT NEUTRALS WITH COLORED STRIPE SHALL BE USED WHERE REQUIRED BY NEC. CONDUCTORS #8 AND LARGER WITH STRIPES, BANDS OR HASH MARKS SHALL MATCH EXISTING BUILDING COLOR CODE.

A. PROVIDE POLYETHYLENE ROPES FOR PULLING WIRE.

B. PROVIDE FISH WIRES FOR DATA AND OTHER EMPTY CONDUIT SYSTEMS REQUIRED, WITHOUT SPLICES AND WITH AMPLE EXPOSED LENGTHS AT EACH END.

2.7 NON-FUSIBLE SWITCHES

A. NON-FUSIBLE SWITCHES SHALL BE TYPE HD, HEAVY DUTY, SINGLE THROW, THREE POLE, HORSEPOWER RATED, 600V WITH LOCKABLE HANDLE WITH CAPABILITY TO ACCEPT THREE PADLOCKS, AND INTERLOCKED WITH COVER IN CLOSED POSITION.

B. NON-FUSIBLE SWITCH SHALL COMPLY WITH UL 98 AND NEMA KS1. C. PROVIDE NON-FUSIBLE SWITCHES IN NEMA 4X ENCLOSURE.

2.8 DISTRIBUTION PANELBOARDS

A. MAINS: CIRCUIT BREAKER OR LUGS ONLY, AS INDICATED.

B. PANELBOARDS: NEMA PB 1, POWER AND FEEDER DISTRIBUTION TYPE.

C. BRANCH OVERCURRENT PROTECTION DEVICE: BOLT-ON CIRCUIT BREAKERS, REPLACEABLE WITHOUT DISTURBING

D. DOORS: SECURED WITH VAULT-TYPE LATCH WITH TUMBLER LOCK; KEYED ALIKE.

1. FOR DOORS MORE THAN 36 INCHES (914 mm) HIGH, PROVIDE TWO LATCHES, KEYED ALIKE.

E. PHASE, NEUTRAL, AND GROUND BUSSES: HARD-DRAWN COPPER, 98 PERCENT CONDUCTIVITY. F. SHORT-CIRCUIT RATING; FULLY RATED TO INTERRUPT SYMMETRICAL SHORT-CIRCUIT CURRENT AVAILABLE AT TERMINALS.

2.9 HEAT TRACE A. HEATING ELEMENT: PAIR OF PARALLEL NO. 16 AWG, NICKEL-COATED, STRANDED COPPER BUS WIRES EMBEDDED IN CROSSLINKED CONDUCTIVE POLYMER CORE. WHICH VARIES HEAT OUTPUT IN RESPONSE TO TEMPERATURE ALONG ITS LENGTH. TERMINATE WITH WATERPROOF, FACTORY-ASSEMBLED, NONHEATING LEADS WITH CONNECTORS AT

ONE END, AND SEAL THE OPPOSITE END WATER TIGHT. CABLE SHALL BE CAPABLE OF CROSSING OVER ITSELF ONCE

B. ELECTRICAL INSULATING JACKET: FLAME-RETARDANT POLYOLEFIN.

C. CABLE COVER: STAINLESS-STEEL BRAID AND POLYOLEFIN OUTER JACKET WITH ULTRAVIOLET INHIBITOR.

D. MAXIMUM OPERATING TEMPERATURE (POWER ON): 60°F

F. CAPACITIES AND CHARACTERISTICS

2. NUMBER OF PARALLEL CABLES: TWO (2).

G. ELECTRICAL CHARACTERISTICS FOR SINGLE-CIRCUIT CONNECTION: 120V, 1Ø, 60HZ; MAXIMUM OVERCURRENT PROTECTION: 20A.

PART 3 - EXECUTION

3.1 MATERIALS AND WORKMANSHIP A. WORK SHALL BE EXECUTED IN WORKMANLIKE MANNER AND SHALL PRESENT NEAT, RECTILINEAR AND MECHANICAL APPEARANCE WHEN COMPLETED. MAINTAIN MAXIMUM HEADROOM AT ALL TIMES. DO NOT RUN PIPES AND DUCTS EXPOSED UNLESS SHOWN EXPOSED ON DRAWINGS. MATERIAL AND EQUIPMENT SHALL BE NEW AND INSTALLED ACCORDING TO MANUFACTURER'S RECOMMENDED BEST PRACTICE SO THAT

COMPLETED INSTALLATION SHALL OPERATE SAFELY AND EFFICIENTLY. 3.2 CONTINUITY OF SERVICES

A. DO NOT INTERRUPT EXISTING SERVICES WITHOUT OWNER'S APPROVAL

3.3 TESTING, INSPECTION AND CLEANING

BOXES DESIGNATED FOR FUTURE USE.

A. TEST WIRING AND CONNECTIONS FOR CONTINUITY AND GROUNDS BEFORE FIXTURES ARE CONNECTED. B. FAILURE OR DEFECTS IN WORKMANSHIP OR MATERIALS REVEALED BY TESTS OR INSPECTION SHALL BE CORRECTED PROMPTLY AND RETESTED. REPLACE DEFECTIVE MATERIAL.

C. CLEAN PANELS AND OTHER EQUIPMENT. PANELBOARD INTERIORS SHALL BE CLEANED AND VACUUMED. DO NOT USED COMPRESSED AIR TO ASSIST IN CLEANING. E. EQUIPMENT

1.AFTER COMPLETION OF PROJECT, CLEAN THE EXTERIOR SURFACE OF EQUIPMENT INCLUDED IN THIS SECTION, INCLUDING CONCRETE RESIDUE.

F. PROVIDE A DC MEGGER TEST FOR ALL NEW AND REUSED 600V WIRING TO TEST FOR OPEN/SHORT CIRCUIT CONDITIONS AND FOR INSULATION INTEGRITY. IN ACCORDANCE TO NETA TESTING SPECIFICATIONS.

A. PROVIDE NAMEPLATES IN OR ON PANELBOARDS, JUNCTION BOXES AND CABINETS, AND FOR SPECIAL PURPOSE SWITCHES OR OTHER CONTROLS FURNISHED OR INSTALLED UNDER THIS SECTION. NAMEPLATES SHALL DESIGNATE EQUIPMENT CONTROLLED AND FUNCTION.

B. NAMEPLATES SHALL BE LAMINATED BLACK BAKELITE WITH 1/4" HIGH WHITE RECESSED LETTERS. NAMEPLATES SHALL BE SECURELY ATTACHED TO THE EQUIPMENT WITH STAINLESS STEEL SCREWS. ADHESIVES OR CEMENTS SHALL NOT BE USED.

3.5 WIRING METHODS A. INSTALL WIRE AND CABLE IN APPROVED RACEWAYS AS SPECIFIED AND AS APPROVED BY AUTHORITY HAVING JURISDICTION. SURFACE METAL RACEWAYS SHALL NOT BE USED UNLESS EXPLICITLY SPECIFIED AND SHOWN ON DRAWINGS. DO NOT USE SURFACE RACEWAYS ON FLOOR. DO NOT USE ARMORED CABLE

EXCEPT AS APPROVED BY LOCAL CODE FOR LIGHTING AND RECEPTACLE CIRCUITS IN SUSPENDED CEILINGS AND STUD-WALL PARTITIONS. B. WIRE FROM POINT OF SERVICE CONNECTION TO RECEPTACLES, LIGHTING FIXTURES, DEVICES, EQUIPMENT, OUTLETS FOR FUTURE EXTENSION, AND OTHER ELECTRICAL APPARATUS AS SHOWN ON DRAWINGS. PROVIDE SLACK WIRE FOR CONNECTIONS. TAPE ENDS OF WIRES AND PROVIDE BLANK COVERS FOR OUTLET

C. FOLLOW HOMERUN CIRCUIT NUMBERS SHOWN ON DRAWINGS TO CONNECT CIRCUITS TO PANELBOARDS. WHERE HOMERUN CIRCUIT NUMBERS ARE NOT SHOWN ON DRAWINGS. DIVIDE SIMILAR TYPES OF CONNECTED LOADS AMONG PHASE BUSES SO THAT CURRENTS ARE APPROXIMATELY EQUAL. PROVIDE A NEUTRAL CONDUCTOR WITH EACH PHASE WIRE. COMMON NEUTRALS ARE NOT ALLOWED. PANELBOARD CABINETS ARE SURFACE MOUNTED. PROVIDE CONDUITS WITH SUFFICIENT CAPACITY FOR FUTURE CONDUCTORS FOR SPARE BRANCH CIRCUIT CIRCUIT PROTECTIVE DEVICES AND SPACES IN PANELBOARD;

D. ELECTRICAL METALLIC TUBING MAY BE USED GENERALLY, IF APPROVED BY LOCAL CODES, FOR LIGHTING FIXTURE AND RECEPTACLE CIRCUITS, TELEPHONE, INTERCOMMUNICATIONS, SIGNAL AND INSTRUMENTATION CIRCUITS, & FOR CONTROL CIRCUITS, EMT MAY BE USED GENERALLY, IF APPROVED BY AUTHORITIES, IN MASONRY WALLS, ABOVE HUNG CEILINGS, IN EQUIPMENT ROOMS, IN MECHANICAL AND ELECTRICAL CHASES AND CLOSETS, IN EXPOSED LOCATIONS ALONG CEILINGS OR WALLS ABOVE NORMAL TRAFFIC LEVEL AND WHERE NOT SUBJECT TO ACCIDENTAL DAMAGE OR ABUSE.

E. INSTALL CONNECTORS AND COUPLINGS AS RECOMMENDED BY MANUFACTURERS.

STUB UP CONCEALED TO JUNCTION BOX. PROVIDE EXTENSIONS ABOVE CEILING.

F. PROVIDE FLEXIBLE CONDUITS FOR CONNECTIONS TO ELECTRICAL EQUIPMENT AND TO MECHANICAL EQUIPMENT THAT ARE SUBJECT TO MOVEMENT, VIBRATION OR MISALIGNMENT; WHERE AVAILABLE SPACE DICTATES; AND WHERE NOISE TRANSMISSION MUST BE ELIMINATED OR REDUCED. MAXIMUM LENGTH SHALL NOT EXCEED 6 FEET.

G. RUN CONCEALED CONDUIT IN AS DIRECT LINES AS POSSIBLE WITH MINIMUM NUMBER OF BENDS OF LONGEST POSSIBLE RADIUS. RUN EXPOSED CONDUIT AND EMT PARALLEL TO OR AT RIGHT ANGLES TO BUILDING LINES. ENDS SHALL BE FREE FROM DENTS OR FLATTENING.

H. CONDUIT AND EMT RUNS SHALL BE MECHANICALLY AND ELECTRICALLY CONTINUOUS FROM SOURCE PANEL TO OUTLETS, CONDUIT SHALL ENTER AND BE SECURED TO CABINET, JUNCTION BOX, PULL BOX OR OUTLET BOX WITH LOCKNUT OUTSIDE AND BUSHING INSIDE, OR WITH LIQUID-TIGHT, THREADED, SELF-LOCKING, COLD-WELD WEDGE ADAPTER. PROVIDE ADDITIONAL WRENCH-TIGHTEN LOCKNUT FOR EMT OR FLEXIBLE CONDUIT WHERE CIRCUIT VOLTAGE EXCEEDS 250 V. LOCKNUTS AND BUSHINGS OR SELF-LOCKING ADAPTERS WILL NOT BE REQUIRED WHERE CONDUITS ARE SCREWED INTO TAPPED CONNECTIONS. VERTICAL CONDUIT RUNS THAT TERMINATE IN BOTTOMS OF WALL BOXES OR CABINETS SHALL BE PROTECTED FROM ENTRANCE OF FOREIGN MATERIAL BEFORE INSTALLATION OF CONDUCTORS.

I. SIZE CONDUIT AND FLEXIBLE METALLIC CONDUIT AS REQUIRED BY NEC EXCEPT AS SPECIFIED OR SHOWN ON DRAWINGS OTHERWISE.

J. UNLESS SPECIFIED OR SHOWN ON DRAWINGS OTHERWISE, INSTALL CONDUIT AND EMT CONCEALED. UNLESS SPECIFIED OR SHOWN OTHERWISE, CONDUIT MAY BE RUN EXPOSED ON UNFINISHED WALLS AND UNFURRED BASEMENT CEILINGS AND IN UNFINISHED PENTHOUSES, ATTICS AND ROOF SPACES. PROVIDE STAND-OFF CLIPS FOR CONDUITS ON EXTERIOR MASONRY WALLS.

AFTER PLASTER IS FINISHED AND DRY, AND BEFORE CONDUCTORS ARE INSTALLED. L. ATTACH PULL ROPES TO CONDUCTORS WITH BASKET-WEAVE GRIPS ON PULLING EYES. PULL CABLES THAT SHARE CONDUIT AT SAME TIME.

K. INSTALL CONDUIT SYSTEMS COMPLETE BEFORE DRAWING IN CONDUCTORS. BLOW THROUGH AND SWAB

M. PROVIDE INSERTS, HANGERS, ANCHORS AND STEEL SUPPORTS AS NECESSARY. N. RUN MC, FLEXIBLE METAL CONDUIT, AND/OR PLENUM RATED CABLES PARALLEL TO OR AT RIGHT ANGLES TO BUILDING LINES. SUPPORT ALL FROM STRUCTURE AND KEEP TIGHT TO BOTTOM OF STRUCTURE. O. ALL BRANCH CIRCUITS SHALL HAVE DEDICATED NEUTRAL.

A PER CODE: PROVIDE JUMPERS OR BONDING CONDUCTORS WHERE RACEWAY IS ELECTRICALLY DISCONTINUOUS. PROVIDE COPPER GROUND CONDUCTOR MINIMUM #12 IN ALL 120 VOLT BRANCH CIRCUITS. CIRCUIT OR MULTI-WIRE CIRCUIT, TO HAVE A SEPARATE, DEDICATED CONDUCTOR.

B. PROVIDE GROUND BUS INDICATED ON DRAWINGS.

A. AT COMPLETION OF JOB AND AFTER FULL BUILDING OCCUPANCY, CHECK VOLTAGE AT SEVERAL POINTS OF UTILIZATION ON THE SYSTEM WHICH HAS BEEN INSTALLED UNDER THIS CONTRACT. DURING THE TEST, ENERGIZE ALL LOADS INSTALLED. 3.5 PANELBOARDS

A. REVISE ALL EXISTING PANELBOARD DIRECTORIES WITH NEW TYPE WRITTEN INDEX SHOWING CIRCUIT CHANGES UNDER THIS CONTRACT, INCLUDING UPDATING OF EXISTING CIRCUITS NOT BEING CHANGE PLACE DIRECTORY IN CLEAR PLASTIC SLEEVE AND POSITIVELY ATTACH TO THE INSIDE OF THE PANELBOARD DOOR. DO NOT GLUE DIRECTORY IN PLACE.

B. PROVIDE TERMINAL STRIPS IN EXISTING PANELS TO ACCOMMODATE THE INCREASE IN NEUTRAL AND GROUND WIRES.

C. PROVIDE NEW CIRCUIT BREAKERS OF TYPE AND SHORT CIRCUIT RATING TO MATCH EXISTING WHERE REQUIRED TO SUPPLEMENT EXISTING QUANTITY.

REVISIONS

NO. DATE DESCRIPTION

EDNA C. DICKEY PARK

SITE IMPROVEMENTS

PROJECT LOCATION: 60 MADISON DRIVE NEWARK, DELAWARE, 19711

PROJECT NUMBER:

20-03026-030 SCALE:

07/26/2024 AS NOTED

CONSTRUCTION PLAN

DRAWING TITLE:

DRAWING NUMBER:

CUT SHEETS

