



PUBLIC WORKS & WATER RESOURCES
CITY OF NEWARK

220 South Main Street · Newark, Delaware 19711
302.366.7000 · Fax 302.366.7160 · www.newarkde.gov

June 12, 2023

CONTRACT NO. 23-07

ADDENDUM #2

1. PROJECT INFORMATION

Name:	City Hall Parking Lot Reconstruction
Owner:	City of Newark, Delaware
Contract Number:	23-07
Date of Addendum:	June 12, 2023
Pre-Bid Meeting Date:	10:00 a.m., Tuesday, May 30, 2023
Questions Deadline:	12:00 p.m., Thursday, June 15, 2023
Bid Submission Deadline:	2:00 p.m., Tuesday, June 20, 2023

2. NOTICE TO BIDDERS

- A. The Bidder shall acknowledge receipt of this addendum with their submitted proposal. Failure to do so may disqualify the Bidder.
- B. The date for questions **is changed to 12:00 p.m., Thursday, June 15, 2023**. The receipt of bids deadline remains unchanged by this addendum.
- C. This addendum shall serve to answer questions submitted to date for this contract.

3. REVISIONS

- A. The Geogrid stabilization shall be a Rutguard gravel stabilizing geocell- permeable driveway, parking, road base - 4" height or approved equal

4. QUESTIONS

- Q. Where is the right of way for Apple Road and are there any impacts to the construction area?
- A. The Right of way has been added to the plan and no there are no impacts to the construction area.

5. ATTACHMENTS TO THIS ADDENDUM

- A. Revised Plan Set – Addendum #2 dated June 9th, 2023
- B. Revised Specification SECTION 00 00 00 - General Provisions pages 24-40

END OF ADDENDUM #2

CITY HALL PARKING LOT RECONSTRUCTION

CITY OF NEWARK, NEW CASTLE COUNTY, DELAWARE

MAY 18, 2023

CONTRACT NO. 2307

PREPARED FOR:

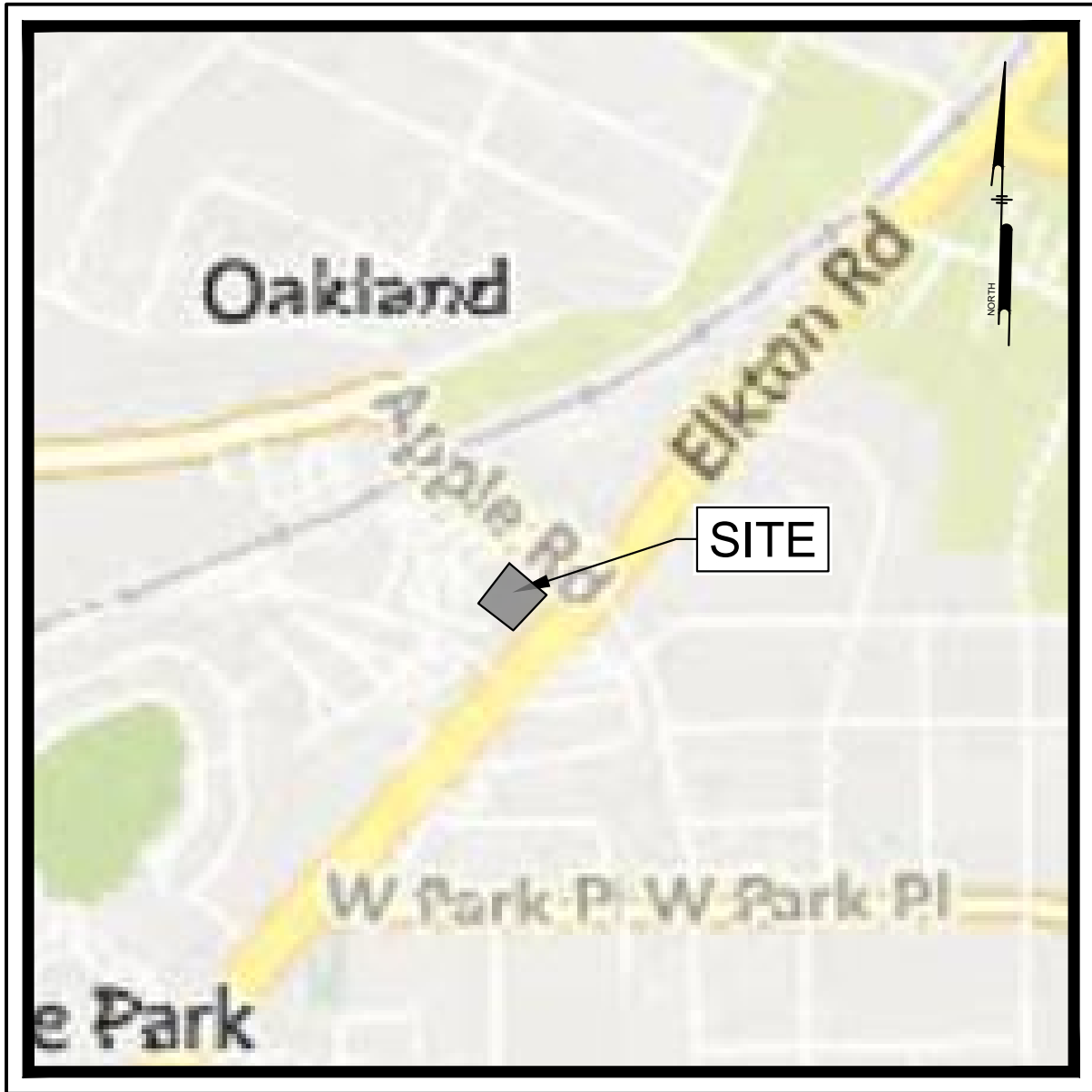
CITY OF NEWARK

220 SOUTH MAIN STREET

NEWARK, DE 19711

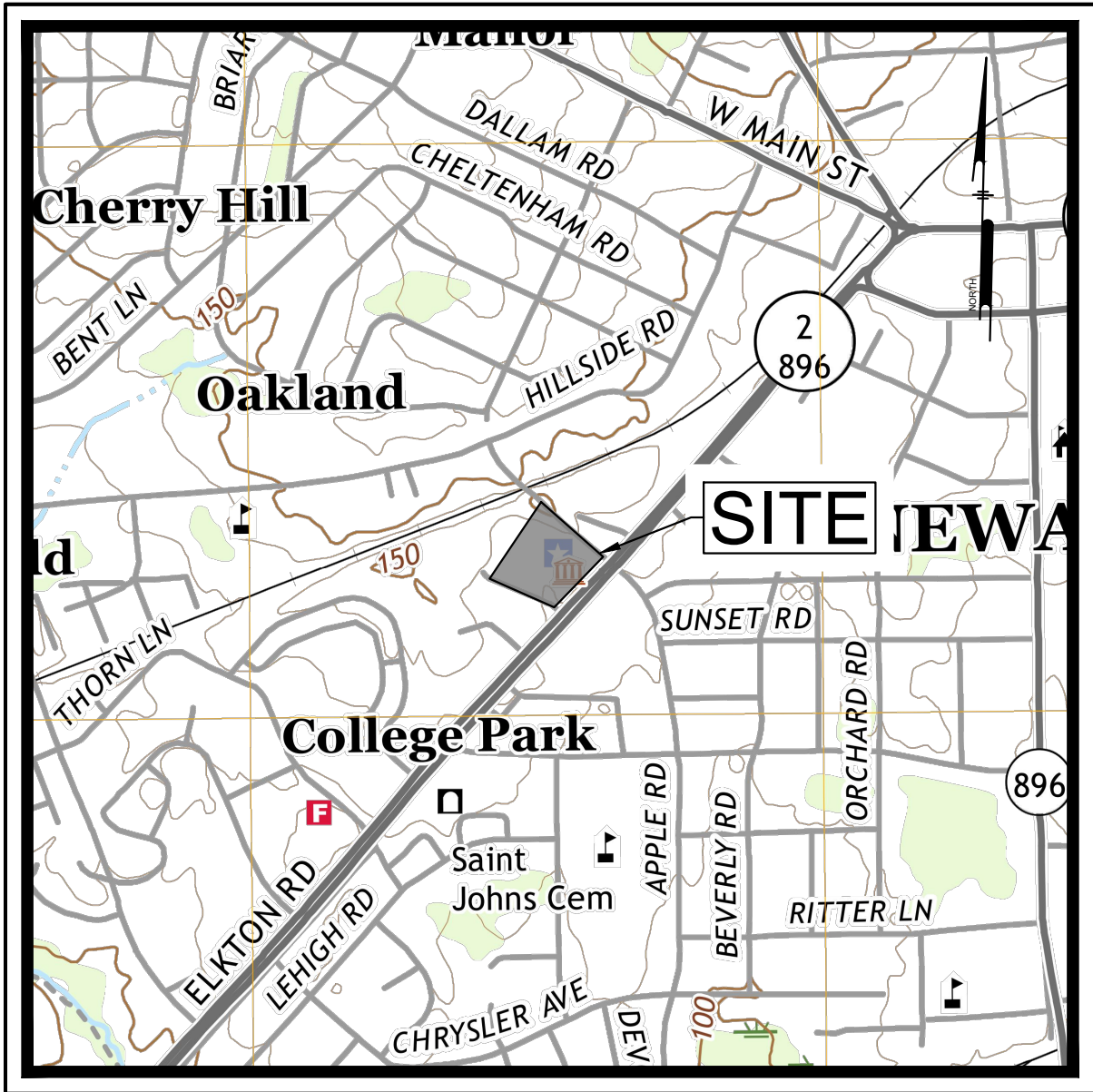
(302) 366-7000

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LOCATION MAP

Scale: 1" = 600'



USGS MAP

Scale: 1" = 1000'



AERIAL MAP

Scale: 1" = 100'

PREPARED BY:

PENNONI ASSOCIATES INC.



Christiana Executive Campus
121 Continental Drive, Suite 207
Newark, DE 19713-4310
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Call Miss Utility of Delmarva
800-282-8555
Ticket Number(s): 230390704

ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR
AND OWNER MUST BE NOTIFIED OF ANY
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CITY HALL PARKING LOT RECONSTRUCTION

220 SOUTH MAIN STREET
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COVER SHEET

CITY OF NEWARK
220 SOUTH MAIN STREET
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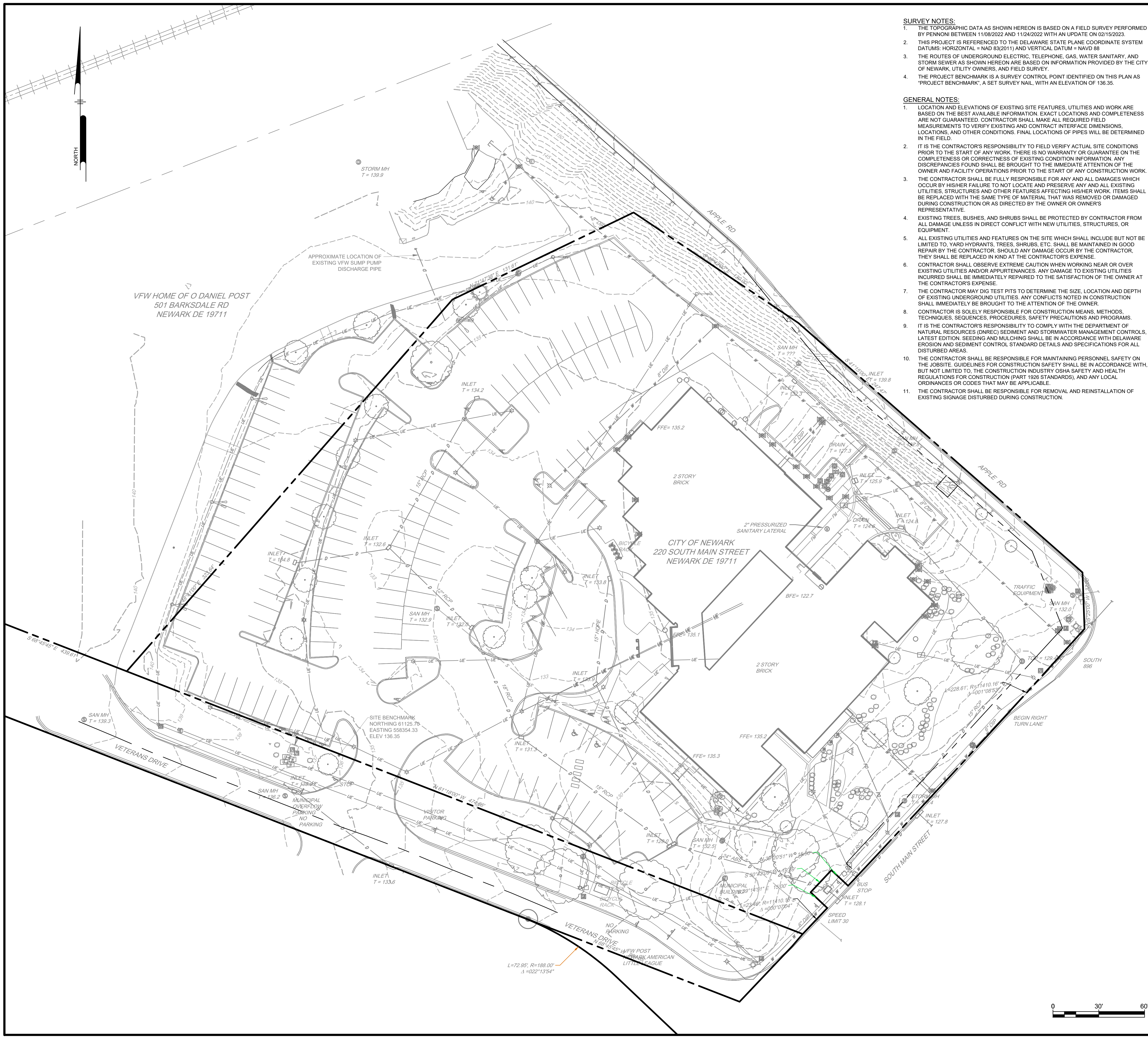
NO.	DATE	REVISIONS	BY
1	06-09-2023	ADDENDUM #2	ALS

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SHALL INDEMNIFY AND HOLD HARMLESS PENNONI
ASSOCIATES FROM ALL CLAIMS, DAMAGES, LOSSES AND
EXPENSES ARISING OUT OF OR RESULTING THEREFROM.

PROJECT	CNEWK22005
DATE	2023-05-18
DRAWING SCALE	AS NOTED
DRAWN BY	MRW/ALS
APPROVED BY	MJE

CS0001
SHEET 1 OF 21

\\server1.ccsdela.com\cscs\CNEWK22005 - rpd parking lot layout and sewer\CS0201.dwg PLOTTED: 8/2/2023 1:58 PM BY Andrew Shimas PROJECT STATUS: PROJECT STATUS: 08-09-2023



SURVEY NOTES:

1. THE TOPOGRAPHIC DATA AS SHOWN HEREON IS BASED ON A FIELD SURVEY PERFORMED BY PENNONI BETWEEN 11/08/2022 AND 11/24/2022 WITH AN UPDATE ON 02/15/2023.
2. THIS PROJECT IS REFERENCED TO THE DELAWARE STATE PLANE COORDINATE SYSTEM DATUMS: HORIZONTAL = NAD 83(2011) AND VERTICAL DATUM = NAVD 88
3. THE ROUTES OF UNDERGROUND ELECTRIC, TELEPHONE, GAS, WATER, SANITARY, AND STORM SEWER AS SHOWN HEREON ARE BASED ON INFORMATION PROVIDED BY THE CITY OF NEWARK, UTILITY OWNERS, AND FIELD SURVEY.
4. THE PROJECT BENCHMARK IS A SURVEY CONTROL POINT IDENTIFIED ON THIS PLAN AS "PROJECT BENCHMARK", A SET SURVEY NAIL, WITH AN ELEVATION OF 136.35.

GENERAL NOTES:

1. LOCATION AND ELEVATIONS OF EXISTING SITE FEATURES, UTILITIES AND WORK ARE BASED ON THE BEST AVAILABLE INFORMATION. EXACT LOCATIONS AND COMPLETENESS ARE NOT GUARANTEED. CONTRACTOR SHALL MAKE ALL REQUIRED FIELD MEASUREMENTS TO VERIFY EXISTING AND CONTRACT INTERFACE DIMENSIONS, LOCATIONS, AND OTHER CONDITIONS. FINAL LOCATIONS OF PIPES WILL BE DETERMINED IN THE FIELD.
2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ACTUAL SITE CONDITIONS PRIOR TO THE START OF ANY WORK. THERE IS NO WARRANTY OR GUARANTEE ON THE COMPLETENESS OR CORRECTNESS OF EXISTING CONDITION INFORMATION. ANY DISCREPANCIES FOUND SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE OWNER AND FACILITY OPERATIONS PRIOR TO THE START OF ANY CONSTRUCTION WORK.
3. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH OCCUR BY HIS/HER FAILURE TO NOT 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 OWNER OR OWNERS REPRESENTATIVE.
4. EXISTING TREES, BUSHES, AND SHRUBS SHALL BE PROTECTED BY CONTRACTOR FROM ALL DAMAGE UNLESS IN DIRECT CONFLICT WITH NEW UTILITIES, STRUCTURES, OR EQUIPMENT.
5. ALL EXISTING UTILITIES AND FEATURES ON THE SITE WHICH SHALL INCLUDE BUT NOT BE LIMITED TO, YARD HYDRANTS, TREES, SHRUBS, ETC. SHALL BE MAINTAINED IN GOOD REPAIR BY THE CONTRACTOR. SHOULD ANY DAMAGE OCCUR BY THE CONTRACTOR, THEY SHALL BE REPLACED IN KIND AT THE CONTRACTOR'S EXPENSE.
6. CONTRACTOR SHALL OBSERVE EXTREME CAUTION WHEN WORKING NEAR OR OVER EXISTING UTILITIES AND/OR APPURTENANCES. ANY DAMAGE TO EXISTING UTILITIES INCURRED SHALL BE IMMEDIATELY REPAIRED TO THE SATISFACTION OF THE OWNER AT THE CONTRACTOR'S EXPENSE.
7. THE CONTRACTOR MAY DIG TEST PITS TO DETERMINE THE SIZE, LOCATION AND DEPTH OF EXISTING UNDERGROUND UTILITIES. ANY CONFLICTS NOTED IN CONSTRUCTION SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE OWNER.
8. CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES, SAFETY PRECAUTIONS AND PROGRAMS.
9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH THE DEPARTMENT OF NATURAL RESOURCES (DNREC) SEDIMENT AND STORMWATER MANAGEMENT CONTROLS, LATEST EDITION. SEEDING AND MULCHING SHALL BE IN ACCORDANCE WITH DELAWARE EROSION AND SEDIMENT CONTROL STANDARD DETAILS AND SPECIFICATIONS FOR ALL DISTURBED AREAS.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING PERSONNEL SAFETY ON THE JOBSITE. GUIDELINES FOR CONSTRUCTION SAFETY SHALL BE IN ACCORDANCE WITH, BUT NOT LIMITED TO, THE CONSTRUCTION INDUSTRY OSHA SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION (PART 1926 STANDARDS), AND ANY LOCAL ORDINANCES OR CODES THAT MAY BE APPLICABLE.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND REINSTALLATION OF EXISTING SIGNAGE DISTURBED DURING CONSTRUCTION.

CONSTRUCTION NOTES:

1. THE FACILITY HAS A HIGH VOLUME OF ACTIVITY FROM CITY EMPLOYEES, CONTRACTORS, AND SERVICES. THE CONTRACTOR SHALL PROVIDE APPROPRIATE SAFETY MEASURES AS REQUIRED BY THE OWNER DURING ALL CONSTRUCTION ACTIVITY.
2. THE INSTALLATION OF FENCING AND GATES IS A PRIORITY AND SHALL OCCUR AT THE EARLIEST STAGE OF CONSTRUCTION. REFER TO THE SEQUENCE OF CONSTRUCTION NOTES ON SHEET CS-1001.
3. THE NPD LOT CAN BE CLOSED IN ITS ENTIRETY WHILE DEMOLITION, ISLAND RECONSTRUCTION, AND UTILITY WORK IS OCCURRING WITHIN THE NPD LOT.
4. THE CONTRACTOR SHALL COORDINATE ALL NIGHT AND WEEKEND WORK SCHEDULING AND ACTIVITY WITH THE OWNER, FACILITY OPERATIONS, AND SECURITY.
5. ALTERNATIVE SITE LIGHTING SOURCES SHALL BE PROVIDED AT CONTRACTOR EXPENSE DURING ANY WORK THAT DISABLES EXISTING SITE LIGHTING. ALTERNATIVE LIGHTING SOURCES MUST PROVIDE LIGHT EQUIVALENT TO EXISTING SITE LIGHTING THROUGHOUT NORMAL HOURS OF SITE LIGHTING OPERATION.
6. WHENEVER ANY HANDICAP PARKING STALL IS REMOVED FROM SERVICE DURING CONSTRUCTION ACTIVITIES, CONTRACTOR SHALL PROVIDE AN EQUAL NUMBER OF TEMPORARY HANDICAP PARKING STALLS USING TEMPORARY SIGNS OR STRIPING. TEMPORARY STALLS SHALL BE PROVIDED CONVENIENT TO BUILDING ENTRANCES. EXACT LOCATIONS SUBJECT TO APPROVAL BY OWNER.
7. ALL PAVING ACTIVITY SHALL BE COMPLETED WITHIN THE DELDOT TIME OF YEAR RESTRICTIONS UNLESS OTHERWISE APPROVED BY THE OWNER.
8. AVAILABLE STAGING AREA FOR PERFORMANCE OF WORK SHALL BE COORDINATED WITH THE OWNER.
9. THERE SHALL BE NO STOCKPILING OF TOPSOIL OR EXCAVATED MATERIAL ON SITE.

LEGEND

PROPERTY LINE	---
RIGHT-OF-WAY LINE	---
EXISTING 1' CONTOUR	---1'---
EXISTING 5' CONTOUR	---5'---
EXISTING TREE LINE	---
EXISTING WATER	W
EXISTING SEWER	S
EXISTING OVERHEAD ELECTRICAL	OE
EXISTING UNDERGROUND ELECTRICAL	UE
EXISTING UNDERGROUND COMMUNICATION	UC
EXISTING STORM DRAIN	D

CITY HALL PARKING LOT RECONSTRUCTION

220 SOUTH MAIN STREET
NEWARK, DE 19711

EXISTING CONDITIONS PLAN

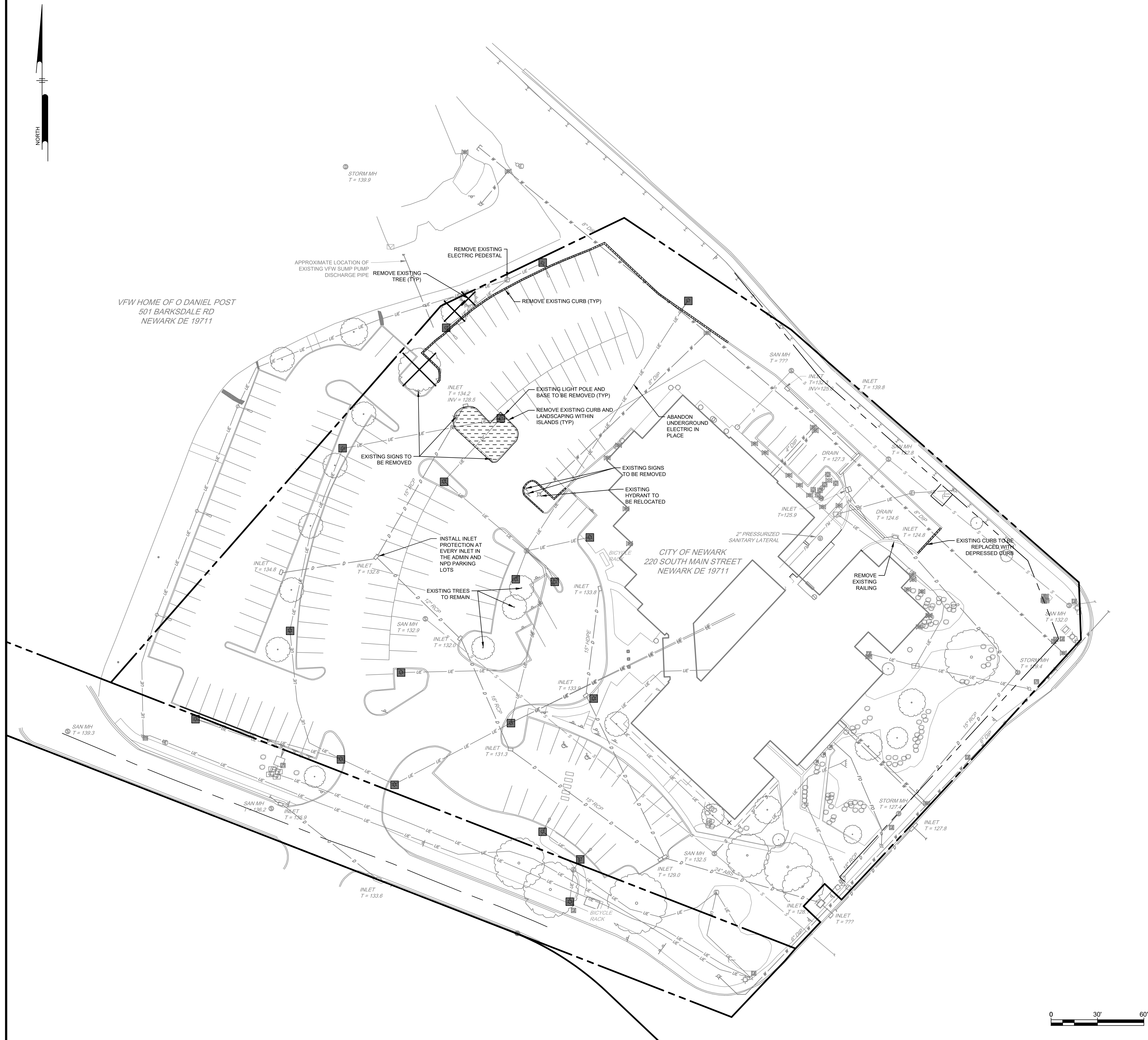
CITY OF NEWARK
220 SOUTH MAIN STREET
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ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR
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PROJECT	CNEWK22005
DATE	2023-03-07
DRAWING SCALE	1"=30'
DRAWN BY	MRW/ALS
APPROVED BY	MJE

\\server1.ccsd.us\public\CS0501\CNEWK22005 - npd parking lot paving and sewer\CS0501.dwg PLOTTED: 8/20/2023 10:58 PM BY: Andrew Shields, PLOTTED BY: Penmon V23.4b PROJECT STATUS: —



PURPOSE NOTES:
THE PURPOSE OF THE PLAN IS TO SHOW ALL DEMOLITION ITEMS INCLUDED IN THE BASE BID FOR THE NPD LOT RECONSTRUCTION.

LEGEND

PROPERTY LINE	
RIGHT-OF-WAY LINE	
EXISTING 1' CONTOUR	
EXISTING 5' CONTOUR	
EXISTING TREE LINE	
EXISTING WATER	
EXISTING SEWER	
EXISTING OVERHEAD ELECTRICAL	
EXISTING UNDERGROUND ELECTRICAL	
EXISTING UNDERGROUND COMMUNICATION	
EXISTING STORM DRAIN	
LIGHT POLE AND BASE DEMOLITION	
LANDSCAPE ISLAND DEMOLITION	
CURB DEMOLITION	
TREE REMOVAL	

CITY HALL PARKING LOT RECONSTRUCTION

220 SOUTH MAIN STREET
NEWARK, DE 19711

NPD LOT DEMOLITION AND E&S PLAN

CITY OF NEWARK
220 SOUTH MAIN STREET
NEWARK, DE 19711

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PROJECT	CNEWK22005
DATE	2023-03-07
DRAWING SCALE	1"=30'
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CS0501
SHEET 3 OF 21

Pennon
PENNONI ASSOCIATES INC.
Christiana Executive Campus
121 Continental Drive, Suite 207
Newark, DE 19713-4310
T 302.655.4451 F 302.654.2885

1. CONDUCT A PRE-CONSTRUCTION MEETING 2 WEEKS PRIOR TO THE START OF CONSTRUCTION WITH THE CITY ENGINEER AND THE CONTRACTOR.
2. THE CONTRACTOR SHALL PROVIDE A DETAILED PHASING PLAN AND SCHEDULE TO THE CITY OF NEWARK FOR APPROVAL PRIOR TO THE START OF ANY WORK.
3. INSTALL INLET FILTER BAGS AND FROSTION AND SEDIMENT CONTROLS.
4. REQUEST AN E85 CONTROL INSPECTION VIA E-MAIL TO THE CITY OF NEWARK PUBLIC WORKS AND WATER RESOURCES DEPARTMENT. PRIOR TO REQUESTING THE INSPECTION, ALL ITEMS SHOWN ON THE E85 PLAN MUST BE COMPLETED, INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING:
 - A. INLET PROTECTION
 - B. ONCE E85 CONTROL INSPECTION IS APPROVED, IN WRITING, BY THE CITY OF NEWARK INSPECTOR, OR WINDING
5. THE CONTRACTOR SHALL AT ALL TIMES PROTECT AGAINST SEDIMENT OR DEBRIS LAIDEN RUNOFF, OR FLOW, FROM LEAVING THE SITE. E85 CONTROLS SHOULD BE CHECKED DAILY AND ADJUSTED AND/OR REPLACED TO FULLY CONTAIN SEDIMENT, OR SEDIMENTATION ON THE SITE. ACCUMULATED SEDIMENT/DEBRIS MUST BE REMOVED WHEN REACHED THE MAXIMUM CAPACITY OF CONTROL. IN ADDITION, THE CONTRACTOR MAY NEED TO ADJUST OR REPAIR MEASURES IN TIMES OF ADVERSE WEATHER CONDITIONS, OR AS DIRECTED BY THE CITY DIRECTOR OR ENGINEER.
6. THE CONTRACTOR SHALL AT ALL TIMES MAINTAIN AN OPEN DRIVE LANE TO THE CELL BLOCK ENTRANCE. IF A FULL CLOSURE IS REQUIRED THE CONTRACTOR MUST COORDINATE WITH NEWARK POLICE AT LEAST 2 WEEKS IN ADVANCE.
7. THE PRIORITY IS TO COMPLETE ALL WORK FOR THE NPD SECURITY FENCE AND GATES AS SOON AS POSSIBLE. THE NPD AND ADMIN LOT MAY NOT BE CLOSED AT THE SAME TIME, THEREFORE ALL BASE BID WORK WITHIN THE NPD LOT SHALL BE COMPLETED PRIOR TO ANY WORK IN THE ADMIN LOT.
 - A. DEMO AND PAVEMENT MILLING
 - B. INSTALL ALL UTILITIES INCLUDING ELECTRICAL CONDUIT AND CABLEG, STORM SEWER, COMMUNICATIONS CONDUIT, AND FIRE HYDRANT RELATION.
 - C. CONSTRUCT RETRACTION WALLS
 - D. INSTALL CURBING, SIDEWALKS, LIGHT POLES, BOLLARDS, AND UTILITY PADS.
 - E. STONE AND BASE COURSE PAAVING
 - F. INSTALL FENCE
 - G. INSTALL LIGHTS
 - H. INSTALL GEOCELL AND GRASS PAVING SYSTEM
 - I. INSTALL WEARING COURSEPAVING
 - J. INSTALL VEHICULAR AND PEDESTRIAN GATES AND APPURTENANCES
 - K. PERFORM PERMANENT LANDSCAPE AND YARD RESTORATION
 - L. PAVEMENT MARKING, SIGNAGE, AND WHEEL STOPS
8. WHILE THE ADMIN LOT IS UNDER CONSTRUCTION THE CONTRACTOR MUST MAINTAIN ACCESS TO THE NPD LOT AND BUILDING ENTRANCE AT ALL TIMES.



CURB
EDGE OF PAVEMENT
EASEMENT
FENCE
GUIDE RAIL
POWER, OVERHEAD
POWER, UTILITY POLE
PROPERTY, LINE
LEGAL RIGHT-OF-WAY
SITE, TRAFFIC SIGN
STORM SEWER, INLET
STORM SEWER, HEADWALL
STORM SEWER, MANHOLE
STORM SEWER, UNDERGROUND
MINOR CONTOUR
MAJOR CONTOUR
VEGETATION, TREE LINE
RIPRAP
DOUBLE YELLOW ROAD STRIPING
WETLAND DELINEATION
MILL AND OVERLAY NPD LOT
MILL AND OVERLAY ADMIN LOT
FULL DEPTH PAVEMENT NPD LOT

16 musical notation exercises for the right hand, arranged in two columns of eight. Each exercise is a short musical phrase on a five-line staff. The exercises include various rhythmic patterns, rests, and melodic lines. Some exercises include a '100' marking below the staff, indicating a tempo or repetition count. The exercises are numbered 1 through 16.

0 SOUTH MAIN STREET
NEWARK, DE 19711

NPD LOT RECONFIGURATION PLAN

CITY OF NEWARK
2220 SOUTH MAIN STREET
NEWARK, DE 19711

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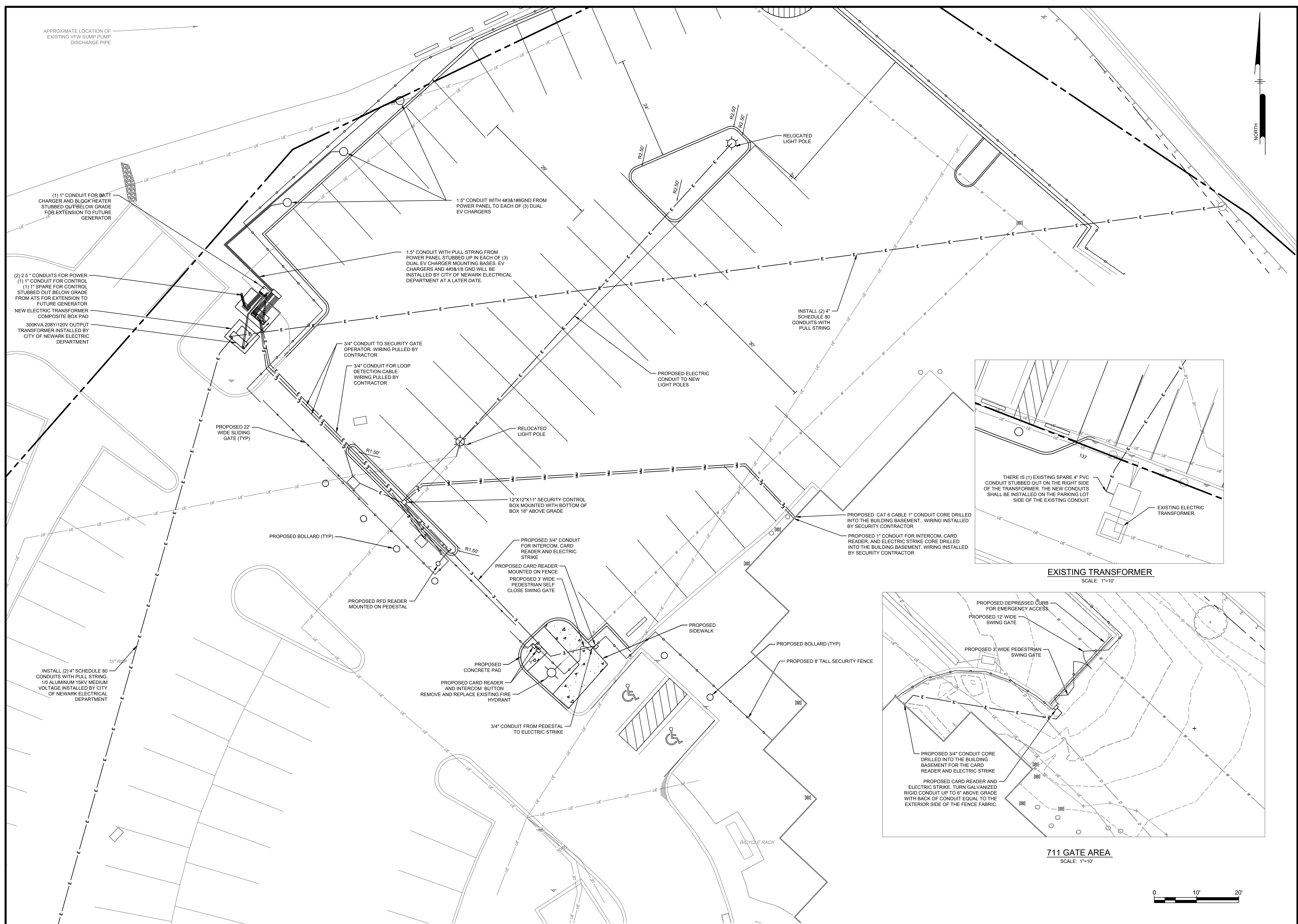


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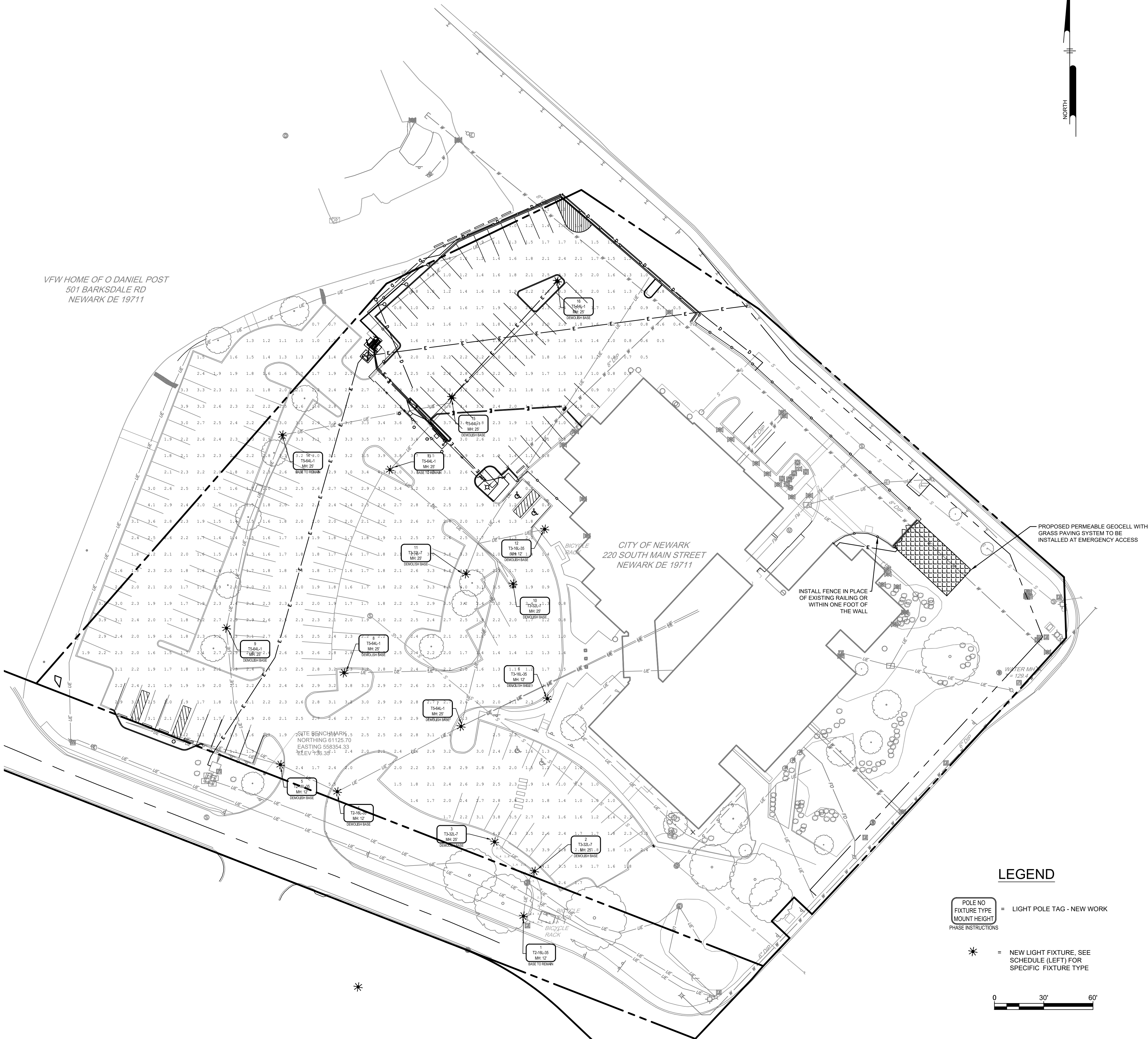
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SHEET 4 OF 21

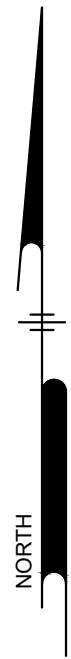


ELECTRICAL NOTES:

1. READ THE ELECTRICAL SPECIFICATIONS FOR SPECIFIC REQUIREMENTS PRIOR TO THE START OF WORK.
2. WHERE LIGHT POLES AND BASES ARE SHOWN TO BE DEMOLISHED, EXISTING UNDERGROUND CONDUITS ARE TO BE SALVAGED FOR REUSE WHERE POSSIBLE. MATCH EXISTING SIZE AND TYPE OF UNDERGROUND CONDUIT FEEDING TO NEW LIGHT POLES IN NEW WORK. REFER TO THE POLE BASE DETAILS FOR THE CONDUIT REQUIREMENTS WITHIN THE NEW POLE BASE.
3. REMOVE CONDUCTORS BACK TO NEAREST JUNCTION BOX TO ALLOW POLE BASES TO BE DEMOLISHED AND REPLACE WITH NEW THWN-2 CONDUCTORS MATCHING THE EXISTING WIRE GAUGE. SPLICE AND EXTEND THE EXISTING LIGHT CIRCUITS TO FEED THE NEW POLE LIGHTS WITH THE CIRCUIT NOTED ON THE DRAWINGS. EXISTING WIRE SIZES ARE NOT KNOWN. ASSUME #8 THWN-2 AWG FOR BIDDING PURPOSES. IF LARGER WIRE SIZES ARE DISCOVERED DURING DEMOLITION, NOTIFY THE OWNER FOR DIRECTION.
4. INSTALL THE NEW POLE BASE WITH THE CENTER OF THE POLE 3 FEET FROM THE EDGE OF THE FRONT FACE OF THE CURB UNLESS OTHERWISE DIRECTED BY OWNER. THE ACTUAL LOCATION OF THE NEW POLE SHALL BE COORDINATED WITH THE OWNER TO AVOID THE EXISTING UNDERGROUND UTILITIES. CONSULT THE OWNER FOR APPROVAL OF ANY REQUIRED CHANGES.
5. INSTALL THE NEW POLE BASE PER THE POLE BASE DETAIL. REFER TO VENDOR ANCHOR BOLT INSTALLATION GUIDE FOR BOLT CIRCLE DIAMETER, BASE COVER SIZE, ANCHOR BOLT PROJECTION, ANCHOR BOLT SIZE AND SPECIFIC DETAILS.
6. WHERE JUNCTION BOXES ARE SHOWN, PROVIDE HUBBELL QUAZITE 11"W X 18"L X 18.5"D PC STYLE POLYMER CONCRETE UNDERGROUND ENCLOSURE PART #PC118JA18 WITH TWO HEX BOLT COVER WITH "STREET LIGHTING" LOGO ON COVER PART #PC1118CA0041. MOUNT THE TOP OF THE BOX 6 INCH ABOVE THE FINISHED GRADE. ENCASE THE BOX WITH 6 INCHES OF 3000 PSI CONCRETE VIBRATED AROUND ALL FOUR SIDES WITH THE TOP OF THE CONCRETE FLUSH WITH THE TOP OF THE BOX AND THE BOTTOM OF THE CONCRETE EQUAL TO THE BOTTOM OF THE BOX. PROVIDE A 1 INCH CHAMFER AROUND THE TOP PERIMETER OF THE CONCRETE AND THE VERTICAL CORNERS. REMOVE ALL FORMS USED AFTER THE CONCRETE CURES. PROVIDE SUPPORT WITHIN THE BOX TO KEEP ALL SPLICE CONNECTIONS AT THE BOTTOM OF THE COVER.
7. CONDUITS UNDER WALKWAYS SHALL BE GALVANIZED RIGID CONDUITS WHICH SHALL EXTEND 3' BEYOND EACH EDGE OF THE WALKWAY FOR PROTECTION FROM VEHICLES WHICH MAY DRIVE OVER THE EDGE OF THE WALKWAY.
8. BACK FILL ALL EXCAVATIONS TO MATCH THE EXISTING GRADE AND RESEED THE EXCAVATION AREA. EXCESS SOIL SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR.
9. PROVIDE A 4" HIGH X 6" WIDE BLACK WITH 3/4" YELLOW LETTERING UV RESISTANT SELF-ADHESIVE LABEL ABOVE THE HAND HOLE LEVEL ON EACH LIGHT POLE. LABELS SHALL FACE THE DIRECTION OF THE ROADWAY, WALKWAY OR PARKING SPACE WHERE THE POLE IS LOCATED. WHERE POLES ARE LOCATED IN THE CENTER OF A PARKING LOT, AND THERE ARE PARKING SPACES ON BOTH THE NORTH AND SOUTH SIDE OF THE POLE, INSTALL THE LABEL ON THE NORTH SIDE OF THE POLE TO MINIMIZE FADING FROM THE SUN. LETTERING ON THE LABEL SHALL STATE THE POLE NUMBER. PROVIDE A PRINTED EXAMPLE FOR THE OWNERS APPROVAL PRIOR TO PRINTING ALL THE LABELS. SEE EXAMPLE.
EXAMPLE: POLE # A56
10. MOUNT THE LIGHT POLES WITH THE HAND HOLE FACING 90-DEGREE FROM THE ROADWAY, WALKWAY OR PARKING SPACE SO THAT THE OPENING IS ACCESSIBLE WHEN A VEHICLE IS PARKED IN THE PARKING SPACE IN FRONT OF THE POLE LOCATION. DO NOT FACE THE HAND HOLE IN THE OPPOSITE DIRECTION OF THE ROADWAY OR PARKING SPACE SO THAT IT WILL NOT BE BLOCKED BY VEGETATION AND HEDGES GROWING BEHIND THE POLE LOCATIONS.
11. PROVIDE NEW POLES WITH ALL REQUIRED POLE CAPS, ACCESS COVERS, GALVANIZED STEEL ANCHOR 'J' BOLTS, NUTS, LOCK NUTS AND WASHERS PER VENDORS INSTALLATION GUIDE.
12. PROVIDE NEW LIGHT FIXTURES WITH ALL REQUIRED ATTACHMENT ARMS, AND MOUNTING HARDWARE PER THE MANUFACTURERS INSTALLATION INSTRUCTIONS.
13. PROVIDE 2#10x810 GND THWN IN THE LIGHT POLE BETWEEN THE UNDERGROUND FEED CONDUCTORS AND THE FIXTURE MOUNTED AT THE TOP OF THE POLE.
14. ANCHOR NUTS SHALL BE ADJUSTED TO MAKE POLE PLUMB.
15. POLE BASE MUST HAVE FULL CONTACT WITH THE FOUNDATION BY GROUTING. GROUT THE SPACE BETWEEN THE TOP OF THE CONCRETE BASE AND THE BOTTOM OF THE LIGHT POLE BASE AND PROVIDE A CHANNEL THROUGH THE GROUT FOR DRAINAGE FROM THE POLE INTERIOR.
16. THE CONTRACTOR IS RESPONSIBLE FOR ALL CIVIL WORK INCLUDING EXCAVATIONS, BACKFILLING, RE-SEEDING, ASPHALT REPAIR, ETC.



Lighting Schedule				
Pole #	Fixture Type	Mounting Height	Pole Height	Base Type
1	T2-16L-35	12'	11'6"	B
2	T3-32L-7	25'	24'6"	C
3	T3-32L-7	25'	24'6"	B
4	T2-16L-35	12'	11'6"	C
5	T2-16L-35	12'	11'6"	C
6	T3-16L-35	12'	11'6"	C
7	T5-64L-1	25'	24'6"	C
8	T5-64L-1	25'	24'6"	B
9	T5-64L-1	25'	24'6"	B
10	T3-32L-7	25'	24'6"	B
11	T3-32L-7	25'	24'6"	B
12	T3-16L-35	12'	11'6"	C
13	T5-64L-1	25'	24'6"	B
14	T5-64L-1	25'	24'6"	B
15	T5-64L-1	25'	22'6"	A
16	T5-64L-1	25'	24'6"	B



CITY HALL PARKING LOT RECONSTRUCTION

220 SOUTH MAIN STREET
NEWARK, DE 19711

NPD LOT LIGHTING PLAN

CITY OF NEWARK
220 SOUTH MAIN STREET
NEWARK, DE 19711

ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR
AND OWNER MUST BE NOTIFIED OF ANY
DISCREPANCIES BEFORE PROCEEDING WITH WORK



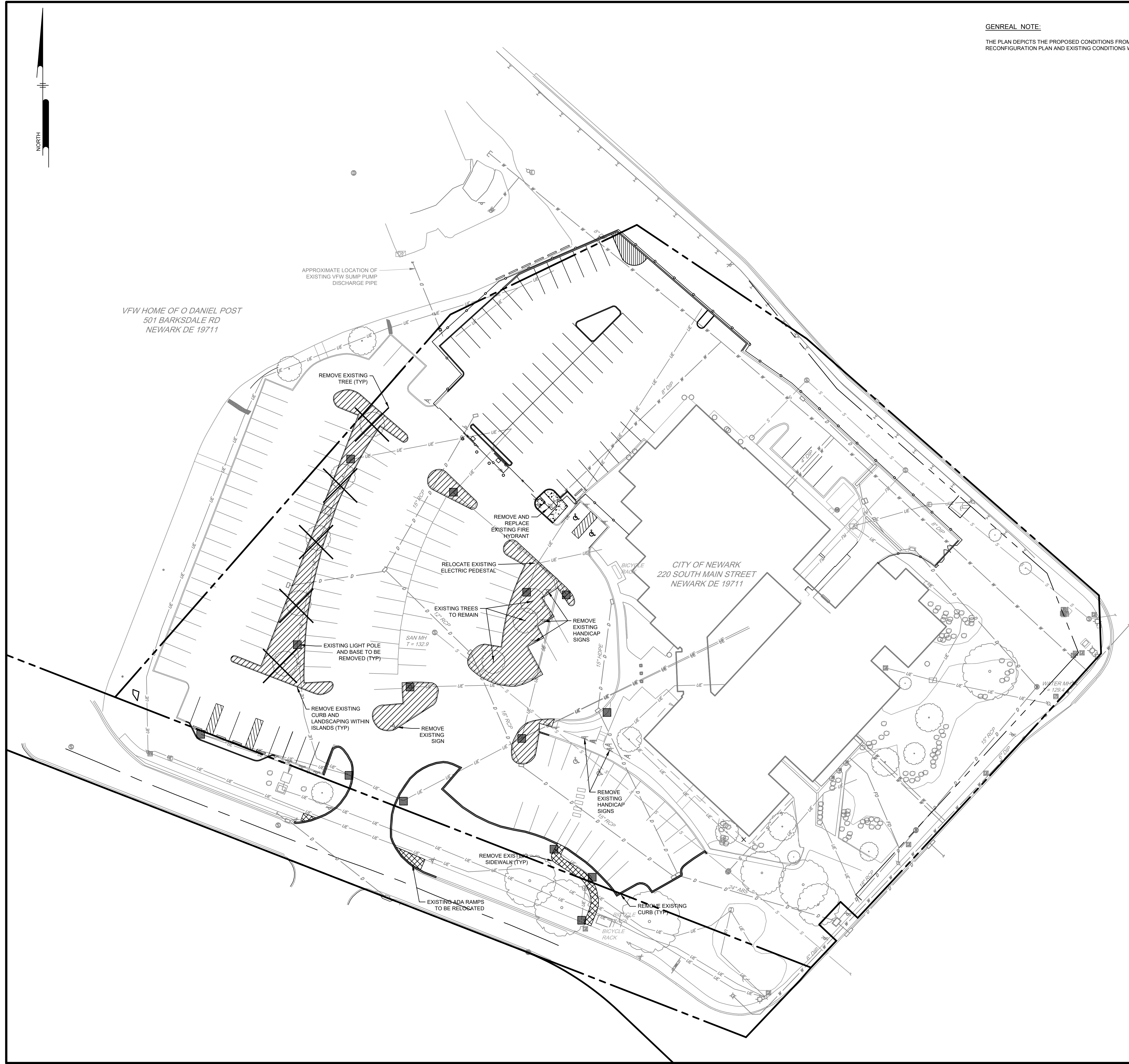
PENNONI ASSOCIATES INC.
Christiana Executive Campus
121 Continental Drive, Suite 207
Newark, DE 19713-4310
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NO.	DATE	REVISIONS	BY
1	06-09-2023	ADDENDUM #2	ALS

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PROJECT CNEWK22005
DATE 2023-05-18
DRAWING SCALE 1"=30'
DRAWN BY MRW/ALS
APPROVED BY MJU

\\pennoni.com\delaware\cs0502\CNEW\Newark22005 - npl parking lot layout and rework\CS0502A_SHEET\CS0502.dwg PLOTTED: 08/20/23 1:48 PM BY: Andrew Shields, PLOTTED: 08/20/23 1:48 PM BY: Andrew Shields PROJECT STATUS: —



GENREAL NOTE:
THE PLAN DEPICTS THE PROPOSED CONDITIONS FROM THE NPD LOT RECONFIGURATION PLAN AND EXISTING CONDITIONS WITHIN THE ADMIN LOT.

PURPOSE NOTES:
THE PURPOSE OF THE PLAN IS TO SHOW ALL DEMOLITION ITEMS INCLUDED IN THE BID OPTION FOR THE ADMIN LOT RECONSTRUCTION.

LEGEND

- PROPERTY LINE
- RIGHT-OF-WAY LINE
- EXISTING 1' CONTOUR
- EXISTING 5' CONTOUR
- EXISTING TREE LINE
- EXISTING WATER
- EXISTING SEWER
- EXISTING OVERHEAD ELECTRICAL
- EXISTING UNDERGROUND ELECTRICAL
- EXISTING UNDERGROUND COMMUNICATION
- EXISTING STORM DRAIN
- LIGHT POLE AND BASE DEMOLITION
- SIDEWALK DEMOLITION
- LANDSCAPE ISLAND DEMOLITION
- CURB DEMOLITION ADMIN LOT
- TREE REMOVAL



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CITY HALL PARKING LOT RECONSTRUCTION

220 SOUTH MAIN STREET
NEWARK, DE 19711

ADMIN LOT DEMOLITION PLAN

CITY OF NEWARK
220 SOUTH MAIN STREET
NEWARK, DE 19711

REVISIONS		NO.	DATE
BY	ALS		
		1	08-09-2023

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PROJECT

CNEWK22005

DATE

2023-03-07

DRAWING SCALE

1"=30'

DRAWN BY

MRW/ALS

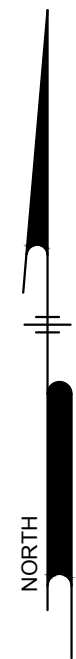
APPROVED BY

MJE

CS0502

SHEET 10 OF 21

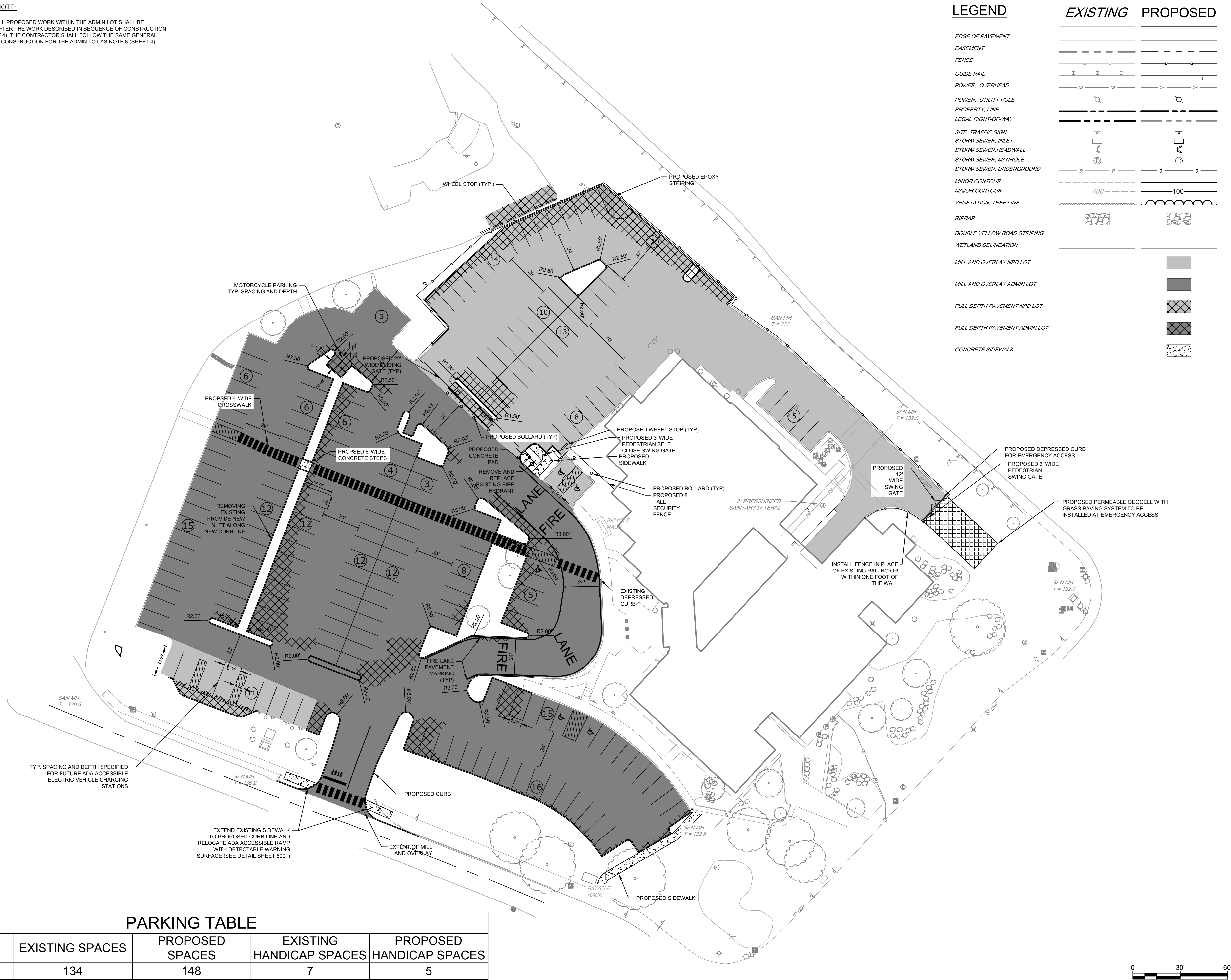
\\server1.ccsd.us\csc\csc\CS1003\449 - rpt parking lot layout\CS1003.dwg PLOTTED: 09/20/2023 1:48 PM BY: Andrew Shields PLOTTED: 09/20/2023 1:48 PM BY: Andrew Shields PROJECT STATUS: —



GENERAL NOTE:

IF AWARDED ALL PROPOSED WORK WITHIN THE ADMIN LOT SHALL BE COMPLETED AFTER THE WORK DESCRIBED IN SEQUENCE OF CONSTRUCTION NOTE 8 (SHEET 4). THE CONTRACTOR SHALL FOLLOW THE SAME GENERAL SEQUENCE OF CONSTRUCTION FOR THE ADMIN LOT AS NOTE 8 (SHEET 4).

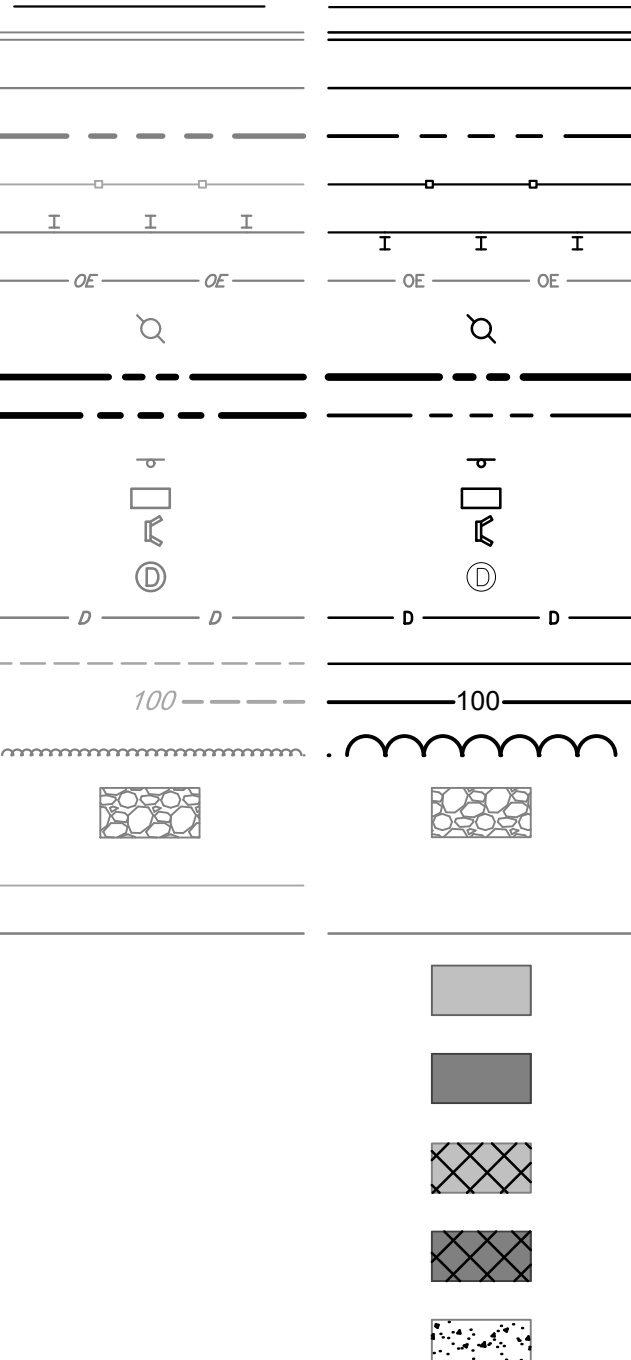
PARKING TABLE				
LOT	EXISTING SPACES	PROPOSED SPACES	EXISTING HANDICAP SPACES	PROPOSED HANDICAP SPACES
ADMIN	134	148	7	5
NPD	48	52	0	0
TOTAL	182	200	7	5



LEGEND

EDGE OF PAVEMENT
EASEMENT
FENCE
GUIDE RAIL
POWER, OVERHEAD
POWER, UTILITY POLE
PROPERTY, LINE
LEGAL RIGHT-OF-WAY
SITE, TRAFFIC SIGN
STORM SEWER, INLET
STORM SEWER, HEADWALL
STORM SEWER, MANHOLE
STORM SEWER, UNDERGROUND
MINOR CONTOUR
MAJOR CONTOUR
VEGETATION, TREE LINE
RIPRAP
DOUBLE YELLOW ROAD STRIPING
WETLAND DELINEATION
MILL AND OVERLAY NPD LOT
MILL AND OVERLAY ADMIN LOT
FULL DEPTH PAVEMENT NPD LOT
FULL DEPTH PAVEMENT ADMIN LOT
CONCRETE SIDEWALK

EXISTING PROPOSED



CITY HALL PARKING LOT RECONSTRUCTION

220 SOUTH MAIN STREET
NEWARK, DE 19711

ADMIN LOT RECONFIGURATION PLAN

CITY OF NEWARK
220 SOUTH MAIN STREET
NEWARK, DE 19711



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NO.	DATE	REVISIONS	BY
1	08-09-2023	ADDENDUM #2	ALS

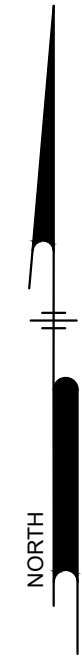
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PROJECT CNEWK22005
DATE 2023-05-18
DRAWING SCALE 1"=30'
DRAWN BY MRW/ALS
APPROVED BY MJE

CS1003
SHEET 11 OF 21

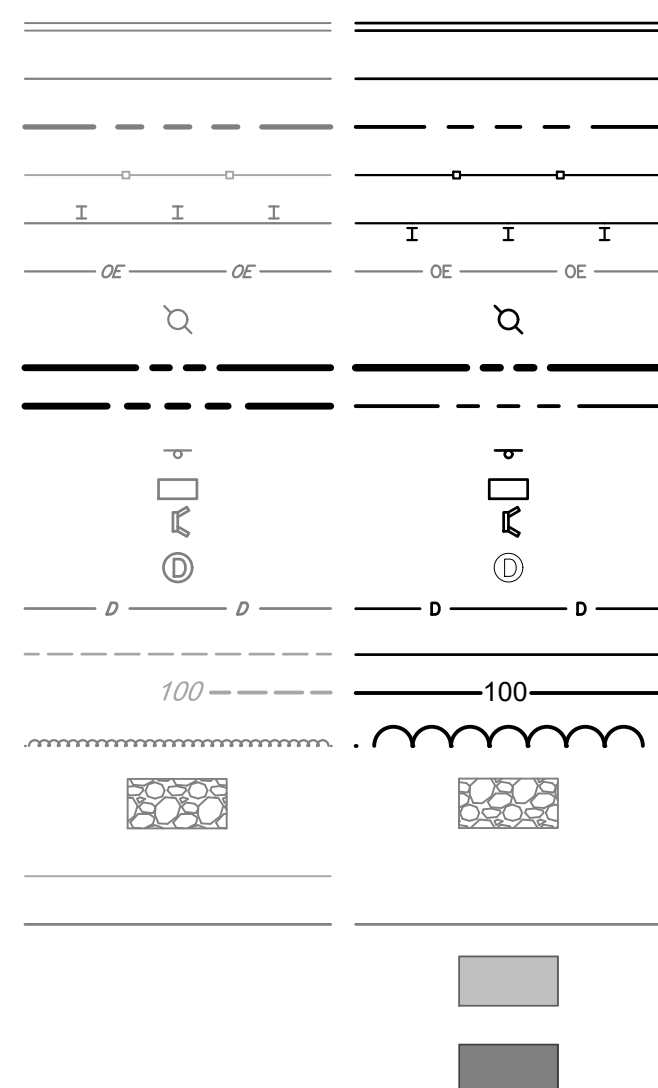
THE PURPOSE OF THIS PLAN IS TO PROVIDE THE CONTRACTOR WITH A
REFERENCE BETWEEN THE EXISTING AND PROPOSED CONDITIONS.

THE PURPOSE OF THIS PLAN IS TO PROVIDE THE CONTRACTOR WITH A
REFERENCE BETWEEN THE EXISTING AND PROPOSED CONDITIONS.



EDGE OF PAVEMENT
EASEMENT
FENCE
GUIDE RAIL
POWER, OVERHEAD
POWER, UTILITY POLE
PROPERTY, LINE
LEGAL RIGHT-OF-WAY
SITE, TRAFFIC SIGN
STORM SEWER, INLET
STORM SEWER, HEADWALL
STORM SEWER, MANHOLE
STORM SEWER, UNDERGROUND
MINOR CONTOUR
MAJOR CONTOUR
VEGETATION, TREE LINE
RIPRAP
DOUBLE YELLOW ROAD STRIPING
WETLAND DELINEATION
MILL AND OVERLAY NPD LOT
MILL AND OVERLAY ADMIN LOT

PROPOSED



ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR
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DISCREPANCIES BEFORE PROCEEDING WITH WORK



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CITY HALL PARKING LOT RECONSTRUCTION

220 SOUTH MAIN STREET
NEWARK, DE 19711

PROPOSED CONDITIONS OVERLAYED EXISTING CONDITIONS PLAN

CITY OF NEWARK
220 SOUTH MAIN STREET
NEWARK, DE 19711

[illegible]

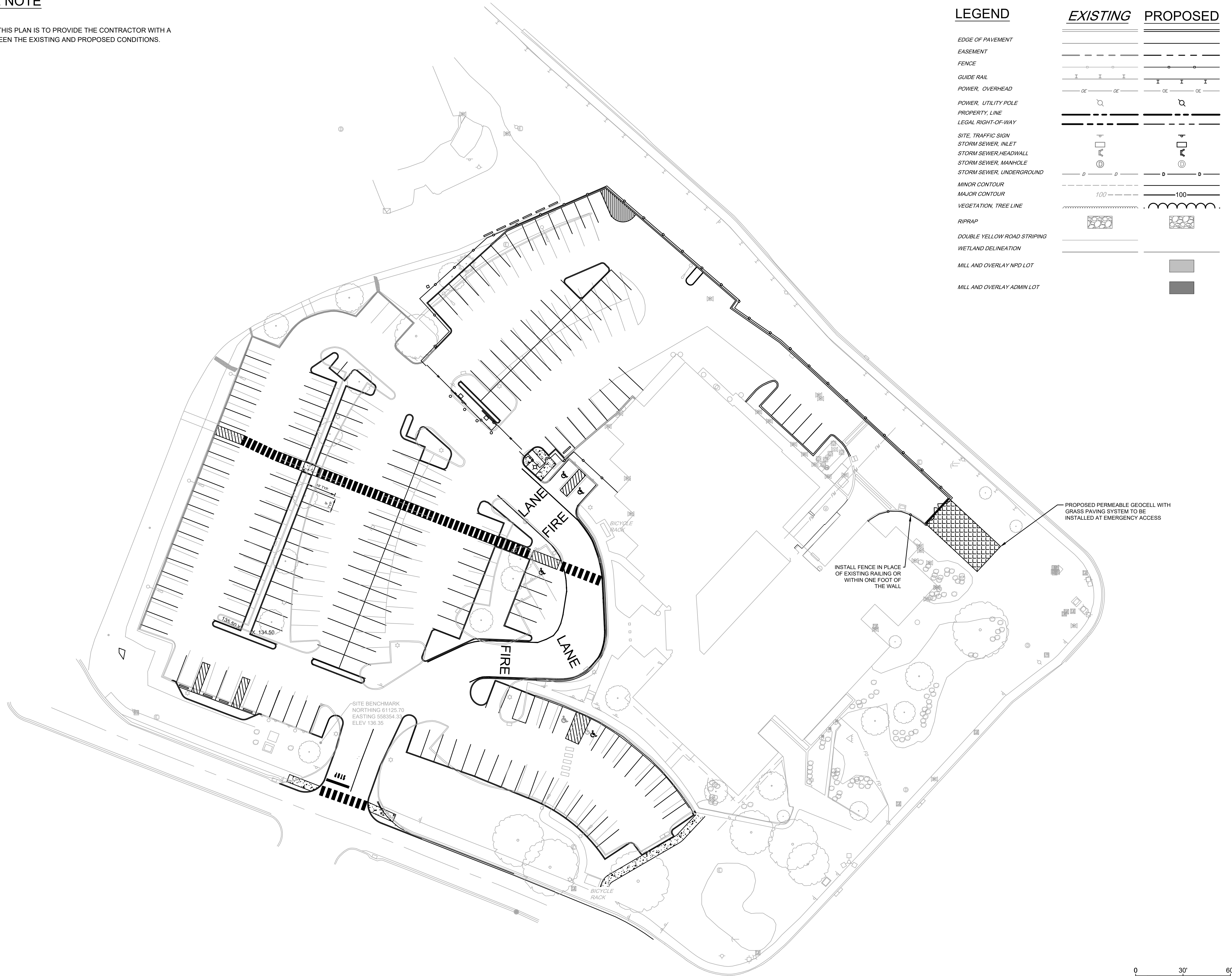
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DATE	2023-05-18
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DRAWN BY MRW/ALS

CS1006

SHEET 12 OF 21



I:\cannoni.com\data\Accounts\I\CNEWK\cnewk22005 - npd parking lot fencing and repaving\DESIGN_SHEETS\CS1006.dwg
 PLOTTED: 6/8/2023 5:59 PM, BY: Andrew Shields PLOTSTYLE: Pennoni NCS.stb
 PROJECT STATUS: —

ELECTRICAL NOTES:

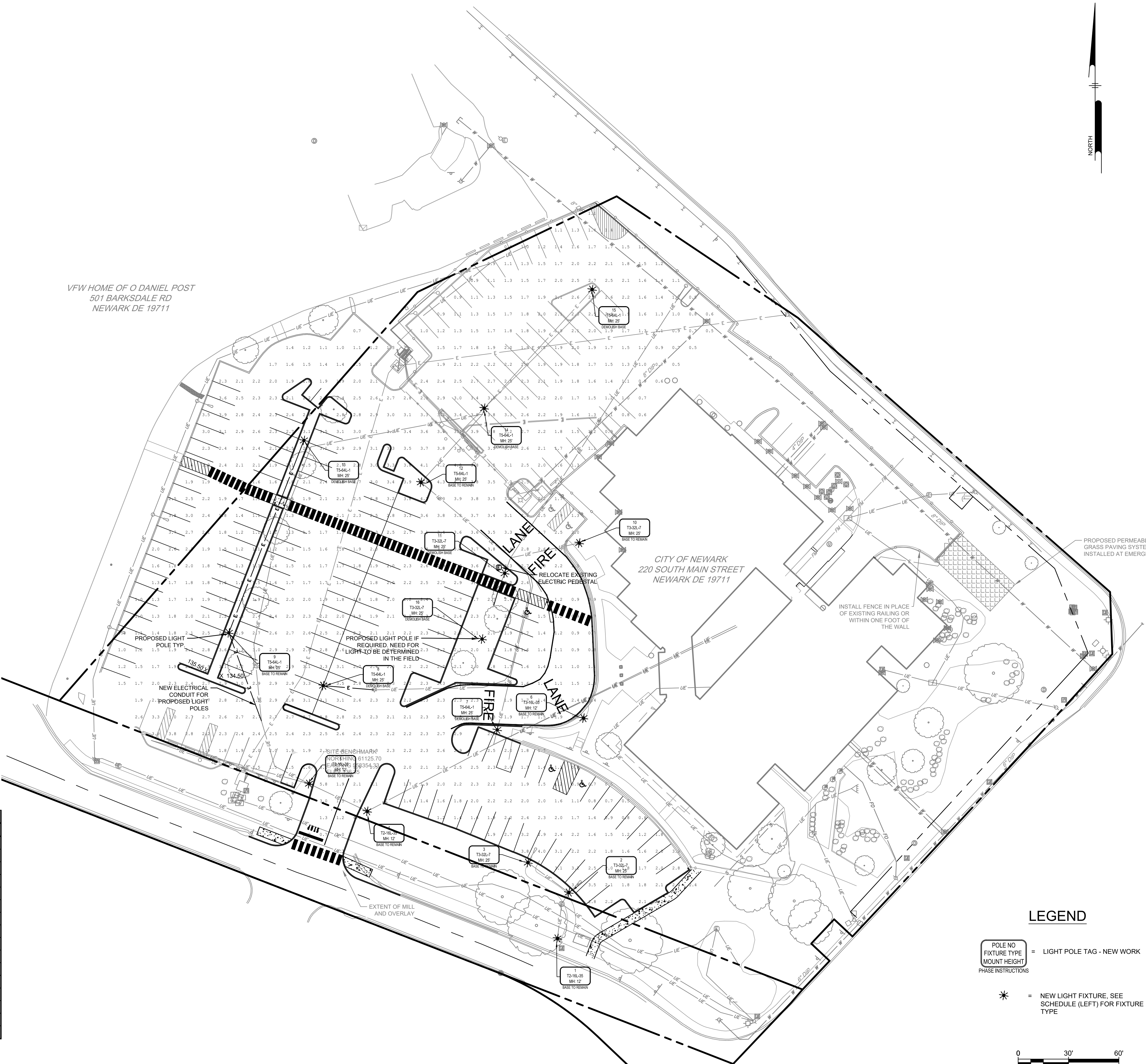
1. READ THE ELECTRICAL SPECIFICATIONS FOR SPECIFIC REQUIREMENTS PRIOR TO THE START OF WORK.
2. WHERE LIGHT POLES AND BASES ARE SHOWN TO BE DEMOLISHED, EXISTING UNDERGROUND CONDUITS ARE TO BE SALVAGED FOR REUSE WHERE POSSIBLE. MATCH EXISTING SIZE AND TYPE OF UNDERGROUND CONDUIT FEEDING TO NEW LIGHT POLES IN NEW WORK. REFER TO THE POLE BASE DETAILS FOR THE CONDUIT REQUIREMENTS WITHIN THE NEW POLE BASE.
3. REMOVE CONDUCTORS BACK TO NEAREST JUNCTION BOX TO ALLOW POLE BASES TO BE DEMOLISHED AND REPLACE WITH NEW THWN-2 CONDUCTORS MATCHING THE EXISTING WIRE GAUGE. SPLICE AND EXTEND THE EXISTING LIGHT CIRCUITS TO FEED THE NEW POLE LIGHTS WITH THE CIRCUIT NOTED ON THE DRAWINGS. EXISTING WIRE SIZES ARE NOT KNOWN. ASSUME #8 THWN-2 AWG FOR BIDDING PURPOSES. IF LARGER WIRE SIZES ARE DISCOVERED DURING DEMOLITION, NOTIFY THE OWNER FOR DIRECTION.
4. INSTALL THE NEW POLE BASE WITH THE CENTER OF THE POLE 3 FEET FROM THE EDGE OF THE FRONT FACE OF CURB UNLESS OTHERWISE DIRECTED BY THE OWNER. THE ACTUAL LOCATION OF THE NEW POLE SHALL BE COORDINATED WITH THE OWNER TO AVOID THE EXISTING UNDERGROUND UTILITIES. CONSULT THE OWNER FOR APPROVAL OF ANY REQUIRED CHANGES.
5. INSTALL THE NEW POLE BASE PER THE POLE BASE DETAIL. REFER TO VENDOR ANCHOR BOLT INSTALLATION GUIDE FOR BOLT CIRCLE DIAMETER, BASE COVER SIZE, ANCHOR BOLT PROJECTION, ANCHOR BOLT SIZE AND SPECIFIC DETAILS.
6. WHERE JUNCTION BOXES ARE SHOWN, PROVIDE HUBBELL QUAZITE 11"W X 18"L X 18.5"D PC STYLE POLYMER CONCRETE UNDERGROUND ENCLOSURE PART #PC118JA18 WITH TWO HEX BOLT COVER WITH "STREET LIGHTING" LOGO ON COVER PART #PC118CA0041. MOUNT THE TOP OF THE BOX 6 INCH ABOVE THE FINISHED GRADE. ENCASE THE BOX WITH 6 INCHES OF 3000 PSI CONCRETE VIBRATED AROUND ALL FOUR SIDES WITH THE TOP OF THE CONCRETE FLUSH WITH THE TOP OF THE BOX AND THE BOTTOM OF THE CONCRETE EQUAL TO THE BOTTOM OF THE BOX. PROVIDE A 1 INCH CHAMFER AROUND THE TOP PERIMETER OF THE CONCRETE AND THE VERTICAL CORNERS. REMOVE ALL FORMS USED AFTER THE CONCRETE CURES. PROVIDE SUPPORT WITHIN THE BOX TO KEEP ALL SPLICE CONNECTIONS AT THE BOTTOM OF THE COVER.
7. CONDUITS UNDER WALKWAYS SHALL BE GALVANIZED RIGID CONDUITS WHICH SHALL EXTEND 3' BEYOND EACH EDGE OF THE WALKWAY FOR PROTECTION FROM VEHICLES WHICH MAY DRIVE OVER THE EDGE OF THE WALKWAY.
8. BACK FILL ALL EXCAVATIONS TO MATCH THE EXISTING GRADE AND RESEED THE EXCAVATION AREA. EXCESS SOIL SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR.
9. PROVIDE A 4" HIGH X 6" WIDE BLACK WITH 3/4" YELLOW LETTERING UV RESISTANT SELF-ADHESIVE LABEL, ABOVE THE HAND HOLE LEVEL ON EACH LIGHT POLE. LABELS SHALL FACE THE DIRECTION OF THE ROADWAY, WALKWAY OR PARKING SPACE WHERE THE POLE IS LOCATED. WHERE POLES ARE LOCATED IN THE CENTER OF A PARKING LOT, AND THERE ARE PARKING SPACES ON BOTH THE NORTH AND SOUTH SIDE OF THE POLE, INSTALL THE LABEL ON THE NORTH SIDE OF THE POLE TO MINIMIZE FADING FROM THE SUN. THE LABEL SHALL STATE THE POLE NUMBER. PROVIDE A PRINTED EXAMPLE FOR THE OWNERS APPROVAL PRIOR TO PRINTING ALL THE LABELS. SEE EXAMPLE.

EXAMPLE: POLE # 14

10. MOUNT THE LIGHT POLES WITH THE HAND HOLE FACING 90-DEGREE FROM THE ROADWAY, WALKWAY OR PARKING SPACE SO THAT THE OPENING IS ACCESSIBLE WHEN A VEHICLE IS PARKED IN THE PARKING SPACE IN FRONT OF THE POLE LOCATION. DO NOT FACE THE HAND HOLE IN THE OPPOSITE DIRECTION OF THE ROADWAY OR PARKING SPACE SO THAT IT WILL NOT BE BLOCKED BY VEGETATION AND HEDGES GROWING BEHIND THE POLE LOCATIONS.
11. PROVIDE NEW POLES WITH ALL REQUIRED POLE CAPS, ACCESS COVERS, GALVANIZED STEEL ANCHOR 'J' BOLTS, NUTS, LOCK NUTS AND WASHERS PER VENDORS INSTALLATION GUIDE.
12. PROVIDE NEW LIGHT FIXTURES WITH ALL REQUIRED ATTACHMENT ARMS, AND MOUNTING HARDWARE PER THE MANUFACTURERS INSTALLATION INSTRUCTIONS.
13. PROVIDE 2#10&10 GND THWN IN THE LIGHT POLE BETWEEN THE UNDERGROUND FEED CONDUCTORS AND THE FIXTURE MOUNTED AT THE TOP OF THE POLE.
14. ANCHOR NUTS SHALL BE ADJUSTED TO MAKE POLE PLUMB.
15. POLE BASE MUST HAVE FULL CONTACT WITH THE FOUNDATION BY GROUTING. GROUT THE SPACE BETWEEN THE TOP OF THE CONCRETE BASE AND THE BOTTOM OF THE LIGHT POLE BASE AND PROVIDE A CHANNEL THROUGH THE GROUT FOR DRAINAGE FROM THE POLE INTERIOR.
16. THE CONTRACTOR IS RESPONSIBLE FOR ALL CIVIL WORK INCLUDING EXCAVATIONS, BACKFILLING, RE-SEEDING, ASPHALT REPAIR, ETC.

Lighting Schedule

Pole #	Fixture Type	Mounting Height	Pole Height	Pole base	Color
1	T2-16L-35	12'	11'6"	B	Bronze
2	T3-32L-7	25'	24'6"	C	Bronze
3	T3-32L-7	25'	24'6"	C	Bronze
4	T2-16L-35	12'	11'6"	B	Bronze
5	T2-16L-35	12'	11'6"	B	Bronze
6	T3-16L-35	12'	11'6"	B	Bronze
7	T5-64L-1	25'	24'6"	C	Bronze
8	T5-64L-1	25'	22'6"	A	Bronze
9	T5-64L-1	25'	24'6"	C	Bronze
10	T3-32L-7	25'	24'6"	C	Bronze
11	T3-32L-7	25'	24'6"	C	Bronze
12	T5-64L-1	25'	24'6"	C	Bronze
13	T5-64L-1	25'	24'6"	C	Bronze
14	T5-64L-1	25'	11'6"	A	Bronze
15	T5-64L-1	25'	24'6"	C	Bronze
16	T3-32L-7	25'	24'6"	C	Bronze



LEGEND

- POLE NO
FIXTURE TYPE
MOUNT HEIGHT
PHASE INSTRUCTIONS
- = LIGHT POLE TAG - NEW WORK
- * = NEW LIGHT FIXTURE. SEE SCHEDULE (LEFT) FOR FIXTURE TYPE



PROJECT STATUS: PLOTTED: 8/20/2023 1:01 PM BY: Andrew Shanks, PLOTTED BY: Pennoni VCS-408

\\server1.ccsd.com\cscs\CS1504\CS1504.dwg



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CITY HALL PARKING LOT RECONSTRUCTION

220 SOUTH MAIN STREET
NEWARK, DE 19711

ADMIN LOT LIGHTING PLAN

CITY OF NEWARK
220 SOUTH MAIN STREET
NEWARK, DE 19711

NO.	DATE	REVISIONS	BY
1	06-09-2023	ADDENDUM #2	ALS

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PROJECT CNEWK22005

DATE 2023-01-17

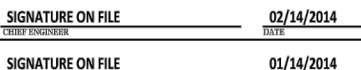
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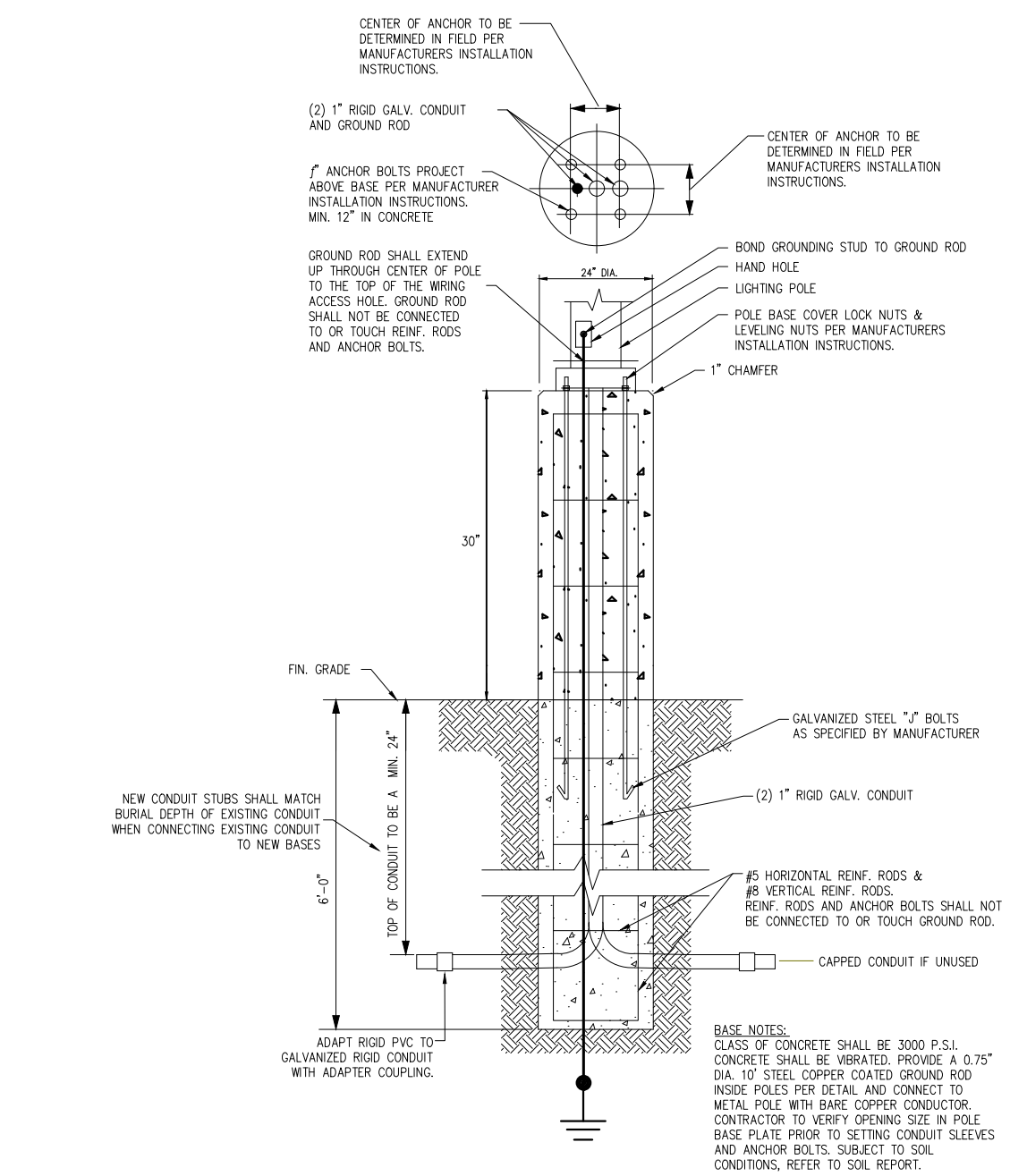
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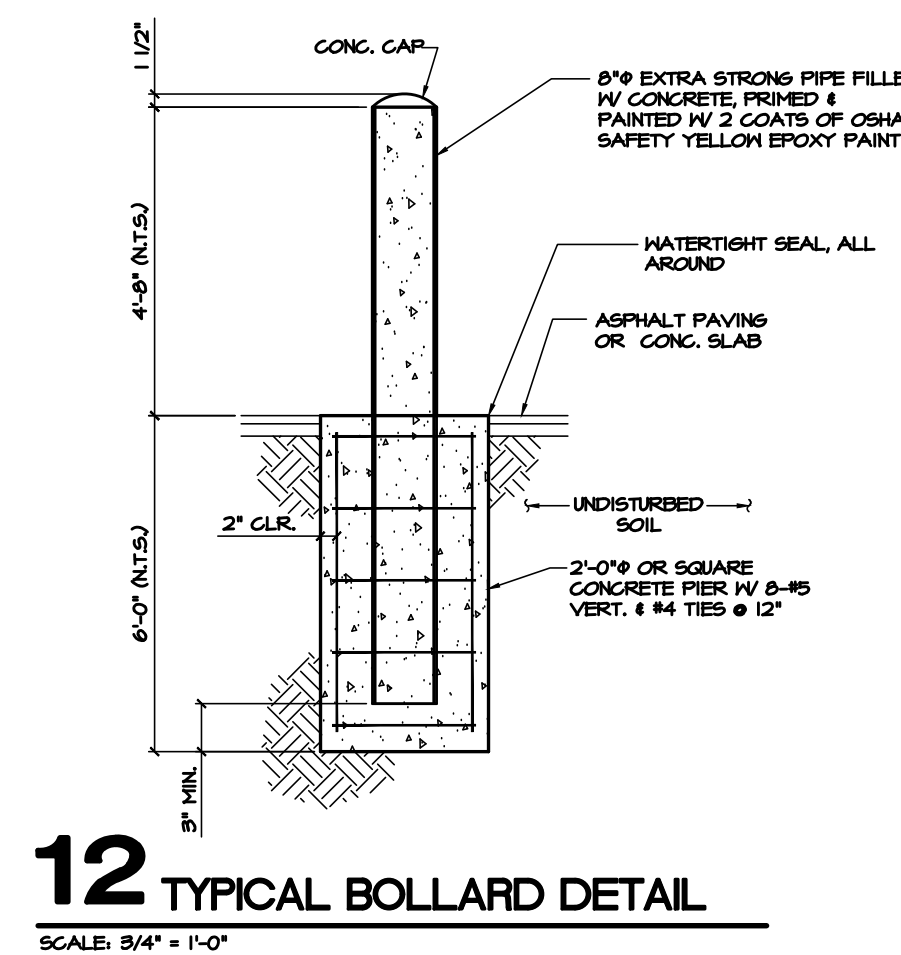
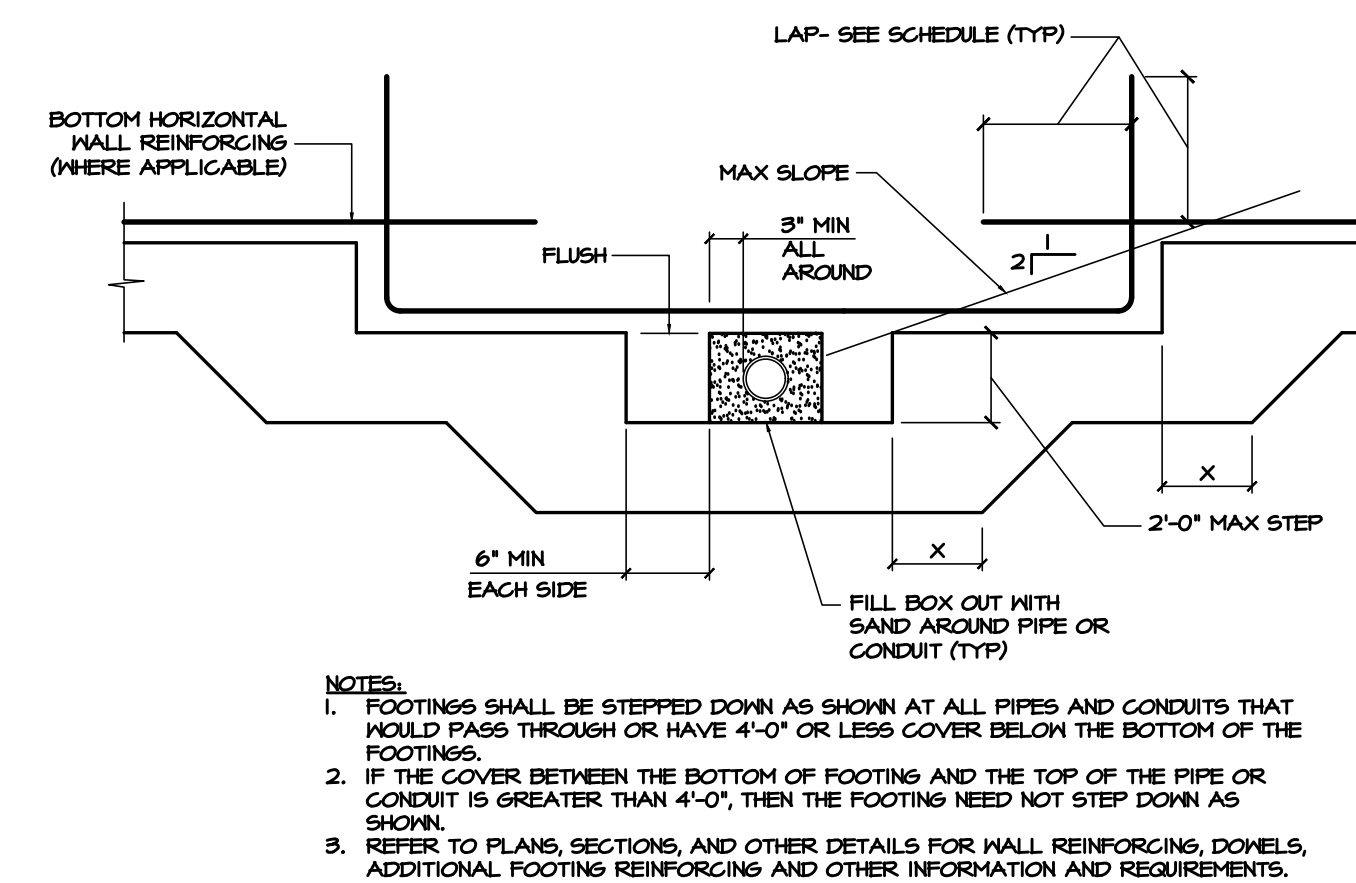
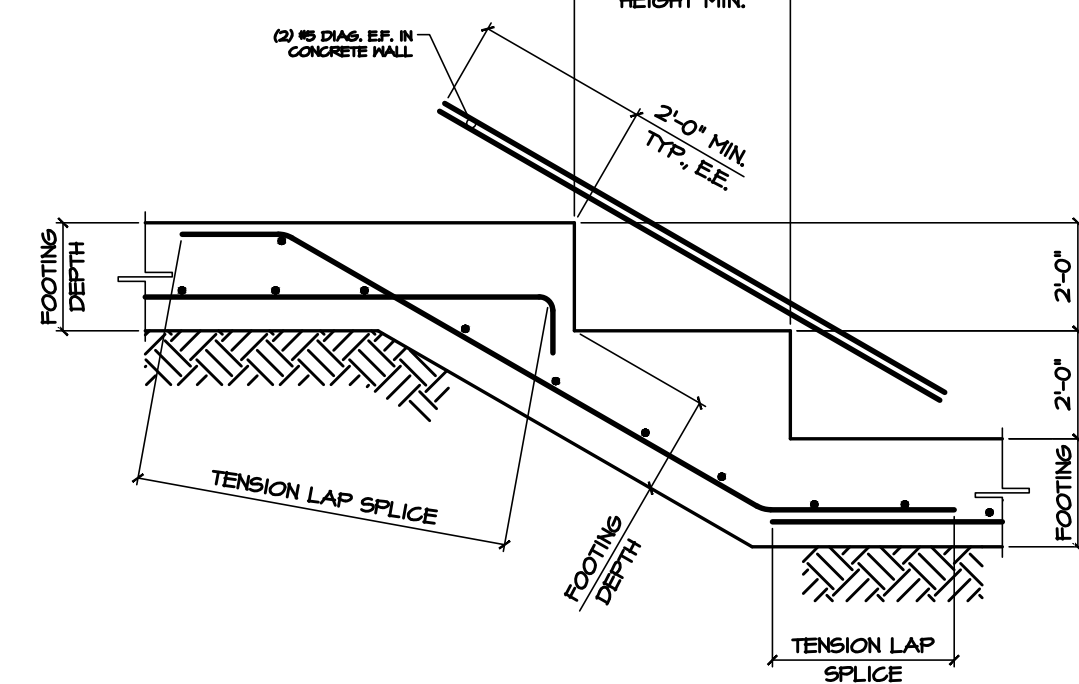
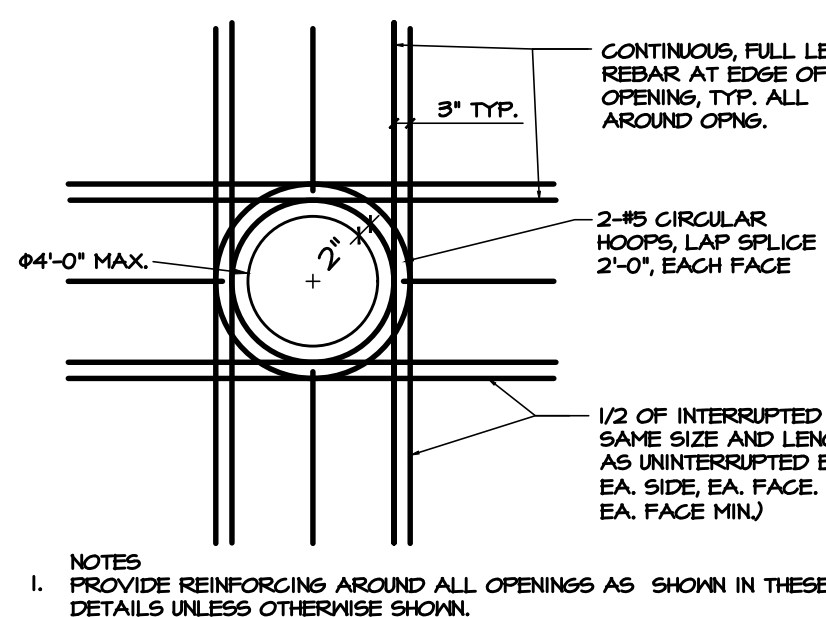
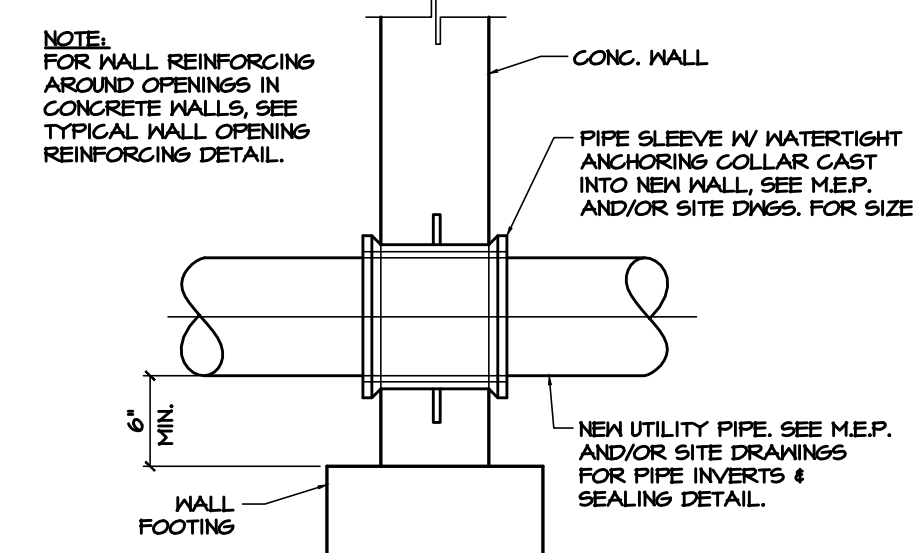
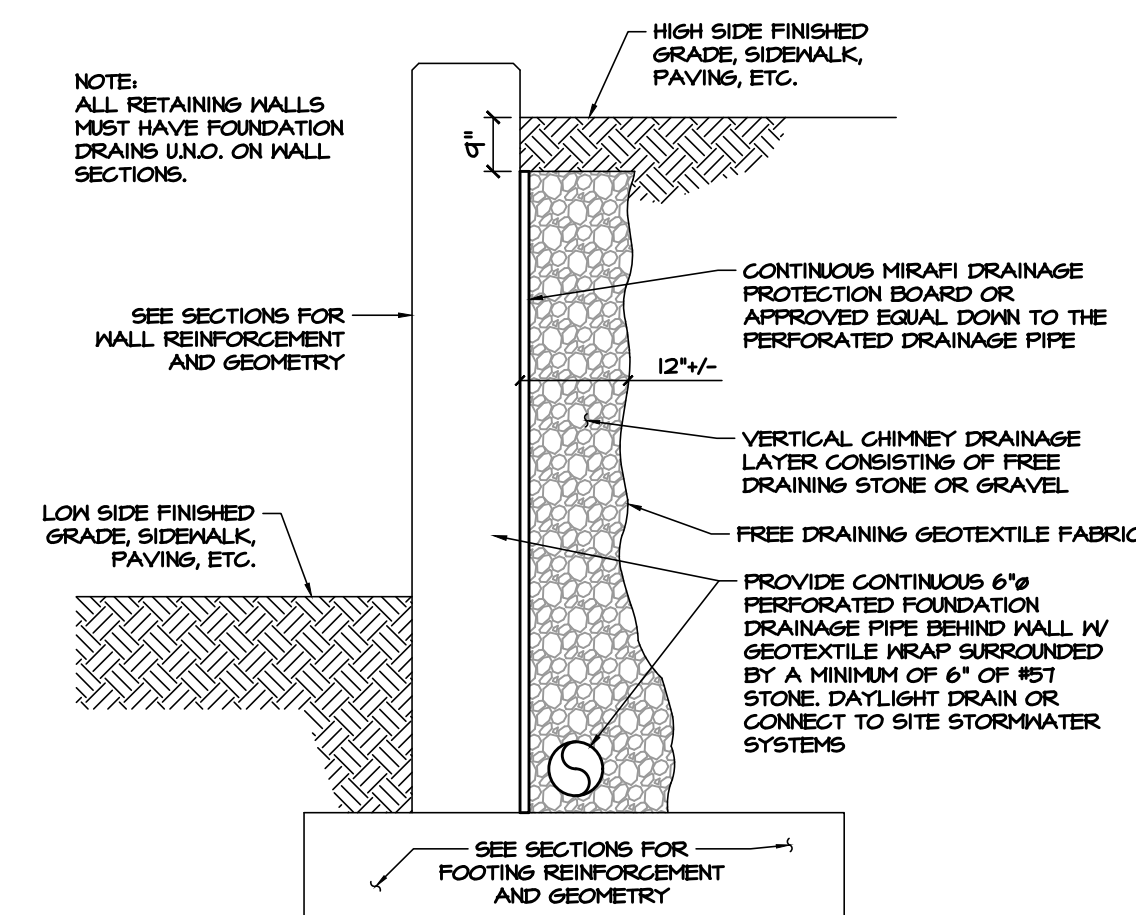
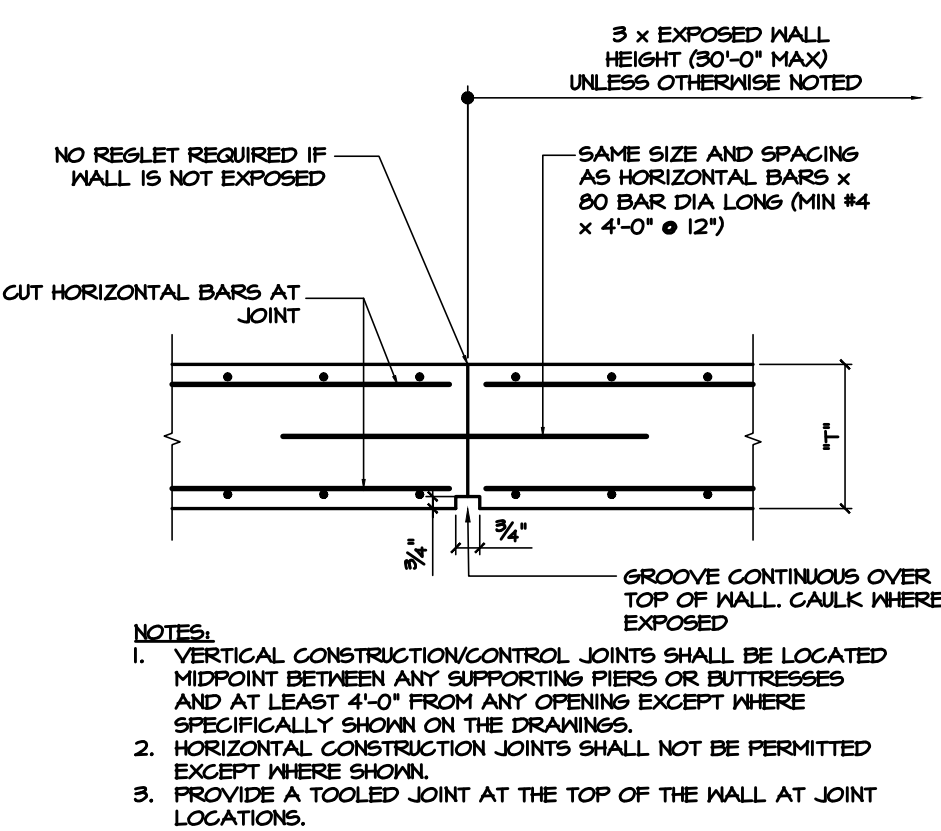
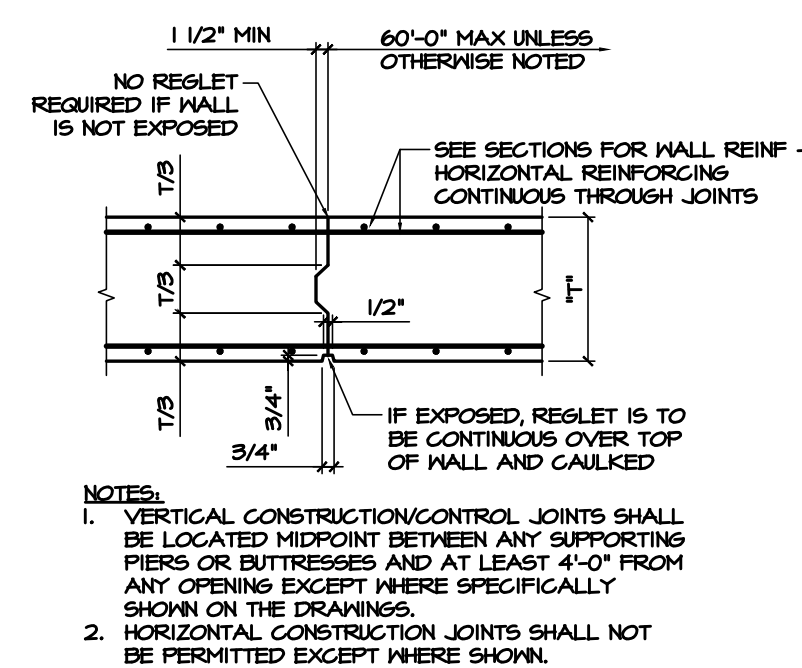
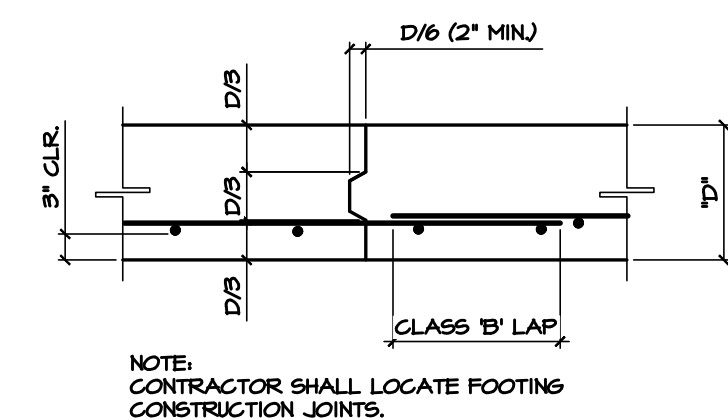
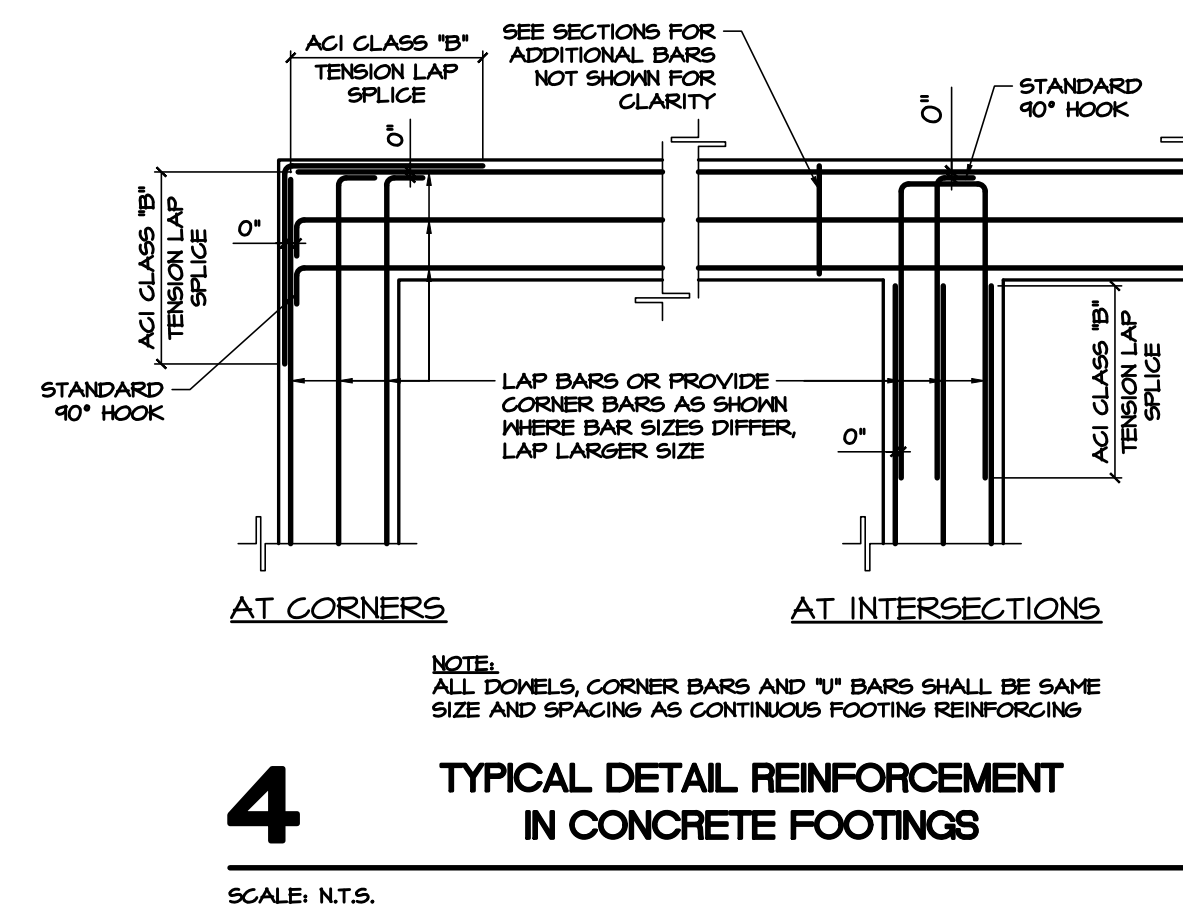
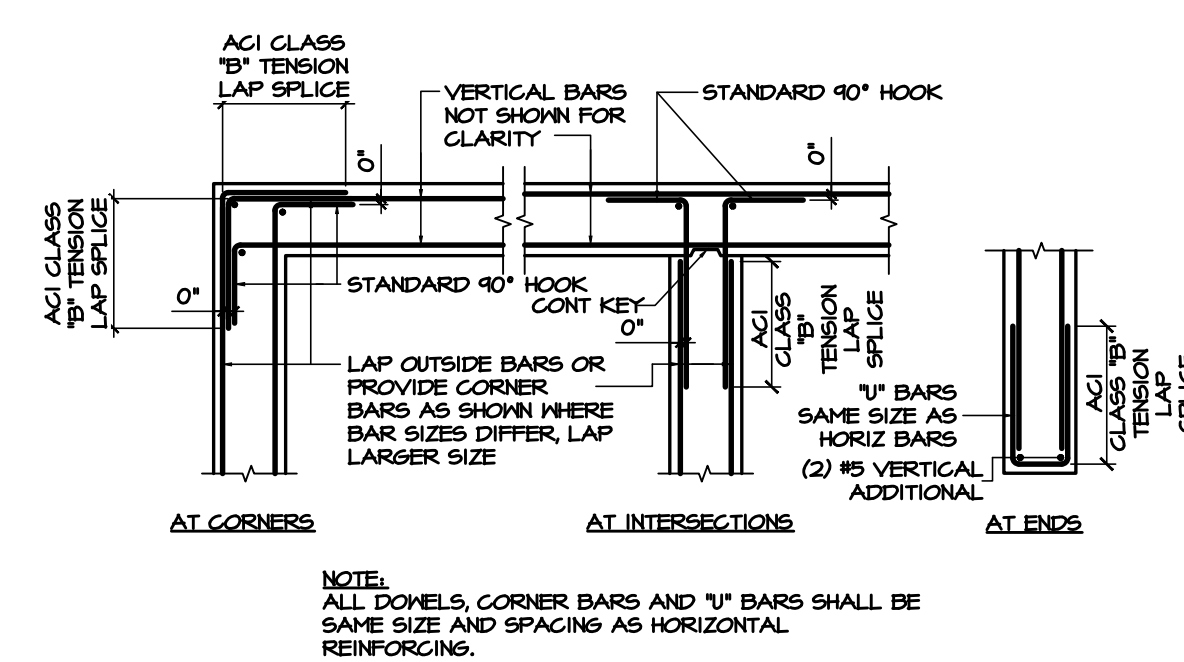
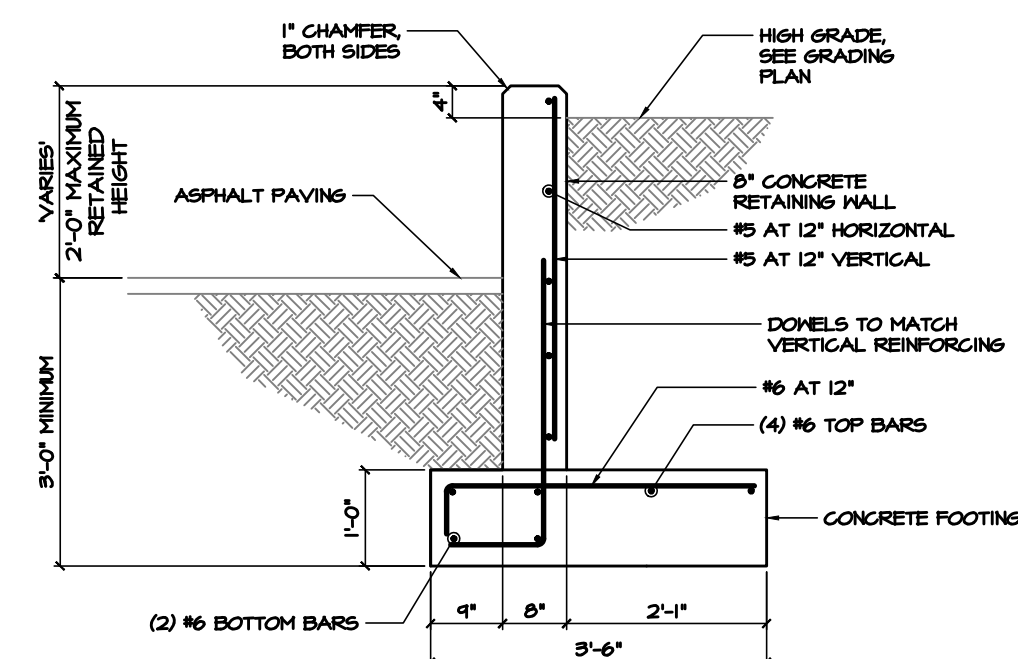
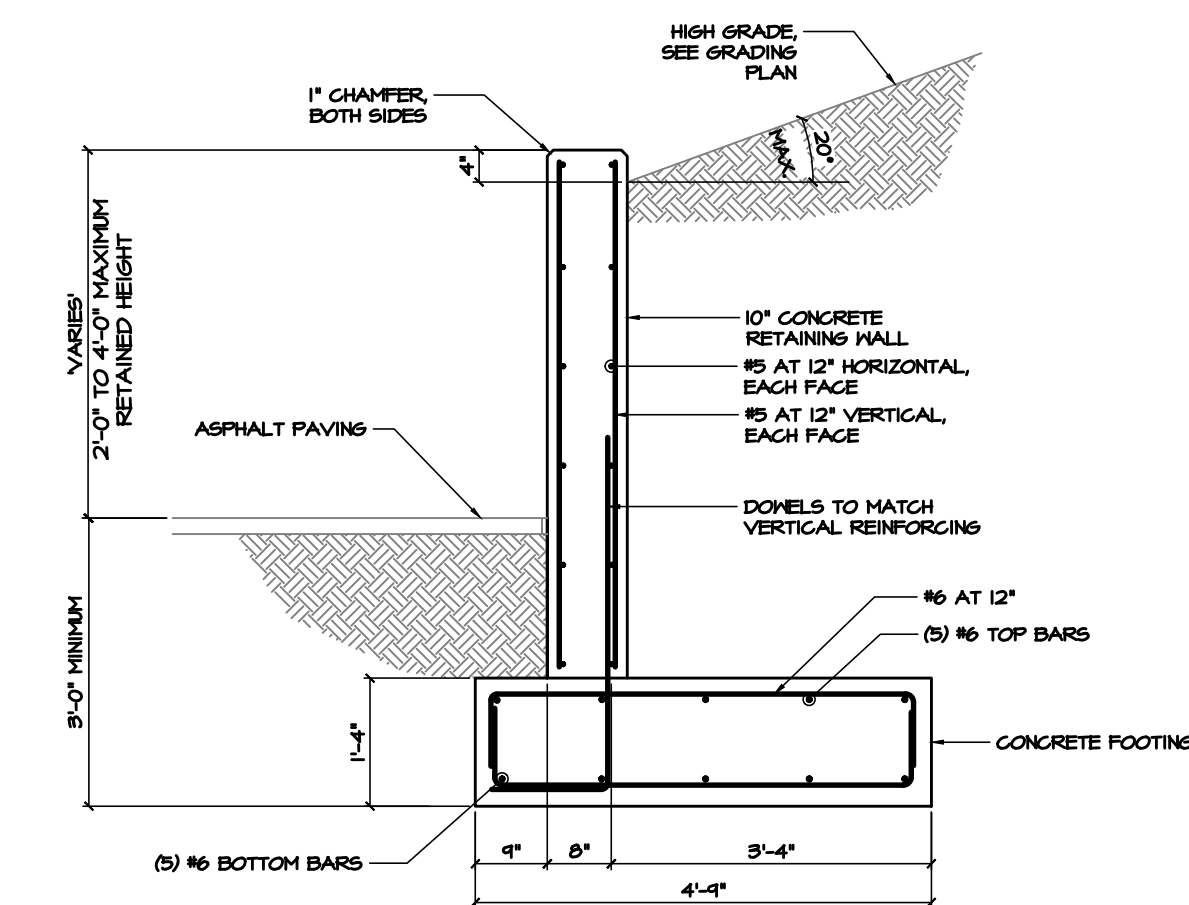
APPROVED BY MJU

CS1504

SHEET 14 OF 20

SHEET 15 OF 21



CITY HALL PARKING LOT RECONSTRUCTION

RETAINING WALL DETAILS

CITY OF NEWARK
2220 SOUTH MAIN STREET
NEWARK, DE 19711

[illegible]

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PROJECT	CNEWK22005
DATE	2023-03-27
DRAWING SCALE	AS NOTED
DRAWN BY	
APPROVED BY	

1.0 GENERAL

- ## 2.0 EARTHWORK

- ### 3.0 FOUNDATIONS

- #### 4.0 CAST-IN-PLACE CONCRETE

- | | |
|---|--------|
| REINFORCING STEEL IN CONCRETE
CAST AGAINST SOIL | 3" |
| REINFORCING STEEL IN CONCRETE
EXPOSED TO SOIL OR WEATHER | 3" |
| #5 BARS AND SMALLER | 1 1/2" |
| #6 BARS AND LARGER | 2" |

6. SPLICES IN REINFORCING STEEL SHALL BE MADE ONLY AT THOSE LOCATIONS WHERE SPLICES ARE SHOWN ON THE STRUCTURAL DRAWINGS AND AT THOSE LOCATIONS WHERE SPLICES HAVE BEEN DETAILLED ON THE REINFORCING STEEL PLACING DRAWINGS THAT HAVE BEEN REPRODUCED ON THE STRUCTURAL DRAWINGS. SPLICES SHALL BE CLASS "B" TENSION LAP SPLICES (SEE TABLES 1 AND 2 BELOW), EXCEPT WHERE INDICATED OTHERWISE ON THE STRUCTURAL DRAWINGS. MECHANICAL SPLICE COUPLERS CAPABLE OF DEVELOPING 125% OF THE TENSILE STRENGTH OF THE REINFORCING STEEL MAY BE USED INSTEAD OF TENSION LAP SPLICES AT THE CONTRACTOR'S OPTION AT ANY LOCATION. COMPRESSION LAP SPLICES PER TABLE 4 MAY BE USED ONLY AT THOSE LOCATIONS SPECIFICALLY INDICATED ON THE STRUCTURAL DRAWINGS. STAGGER SPLICES WHERE REQUIRED TO PROVIDE 1 1/2' CLEAR SPACING BETWEEN REINFORCING STEEL AT SPLICE LOCATIONS.

TABLE 1					
REINFORCING STEEL (FY)	BAR SIZE	BAR LOCATION	CONCRETE STRENGTH		
			3 KSI	4 KSI	5 KSI
60 KSI	#3	TOP BARS	2'-4"	2'-0"	1'-9"
		OTHER BARS	1'-4"	1'-6"	1'-5"
	#4	TOP BARS	3'-1"	2'-8"	2'-5"
		OTHER BARS	2'-4"	2'-1"	1'-10"
	#5	TOP BARS	3'-10"	3'-4"	3'-0"
		OTHER BARS	3'-0"	2'-7"	2'-4"
	#6	TOP BARS	4'-8"	4'-0"	3'-7"
		OTHER BARS	3'-7"	3'-1"	2'-9"

B. INDICATED SPLICE LENGTHS SHALL BE INCREASED BY THE FOLLOWING FACTORS WHERE THE FOLLOWING CONDITIONS OCCUR:

CONDITION	SPLICE LENGTH MULTIPLIER
BAR SPACING OR CLEAR COVER LESS THAN REQUIRED PER NOTE #1	1.5
LIGHTWEIGHT CONCRETE	1.3
EPOXY COATED REINFORCING WITH COVER < 3X DIAMETER AND CLEAR SPACING < 6X DIAMETER	1.5
ALL OTHER EPOXY COATED BARS	1.2

- ## 5.0 SPECIAL INSPECTIONS, TESTING AND OBSERVATIONS

GENERAL

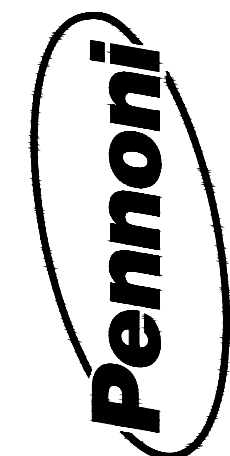
- | SYSTEM, ELEMENT OR COMPONENT | INSPECTION
REQUIRED |
|------------------------------|------------------------|
| SOILS | YES |
| CONCRETE | YES |

- ### SPECIAL INSPECTIONS AND TESTS

- STRUCTURAL OBSERVATIONS
1. THE PROJECT IS EXEMPT FROM THE REQUIREMENTS OF IBC SECTION 1704.6 FOR STRUCTURAL OBSERVATIONS.

RETAINING WALL NOTES

CITY OF NEWARK
220 SOUTH MAIN STREET



PENNONI ASSOCIATES INC.
Christiana Executive Campus
121 Continental Drive, Suite 207
Newark, DE 19713-4310
T 302.655.4451 F 302.654.2895

**ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR
AND OWNER MUST BE NOTIFIED OF ANY
DISCREPANCIES BEFORE PROCEEDING WITH WORK**

[illegible]

ALL DOCUMENTS PREPARED BY PENNONI ASSOCIATES ARE INSTRUMENTS OF SERVICE IN RESPECT OF THE PROJECT. THEY ARE NOT INTENDED OR REPRESENTED TO BE SUITABLE FOR REUSE BY OWNER OR OTHERS ON THE EXTENSIONS OF THE PROJECT OR ON ANY OTHER PROJECT. ANY REUSE WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY PENNONI ASSOCIATES FOR THE SPECIFIC PURPOSES OF THE PROJECT SHALL BE THE OWNERS' SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO PENNONI ASSOCIATES; AND OWNER SHALL INDEMNIFY AND HOLD HARMLESS PENNONI ASSOCIATES FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES ARISING OUT OF OR RESULTING THEREFROM.

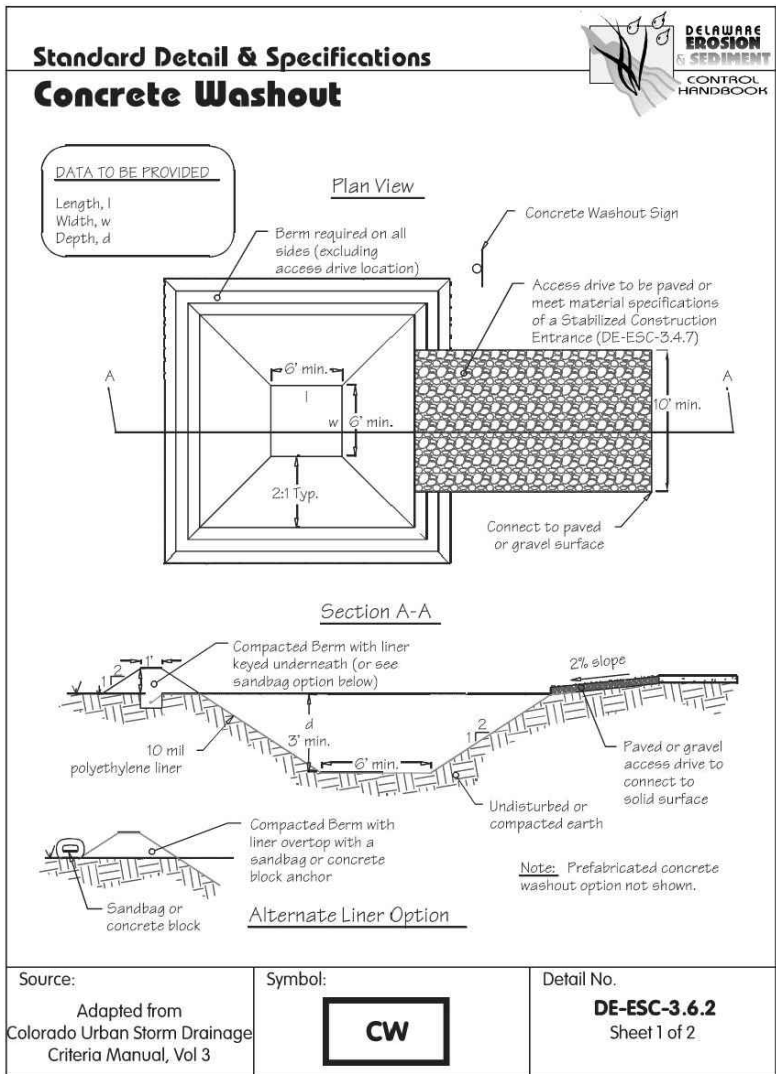
PROJECT CNEWK22005

DATE	2023-03-2
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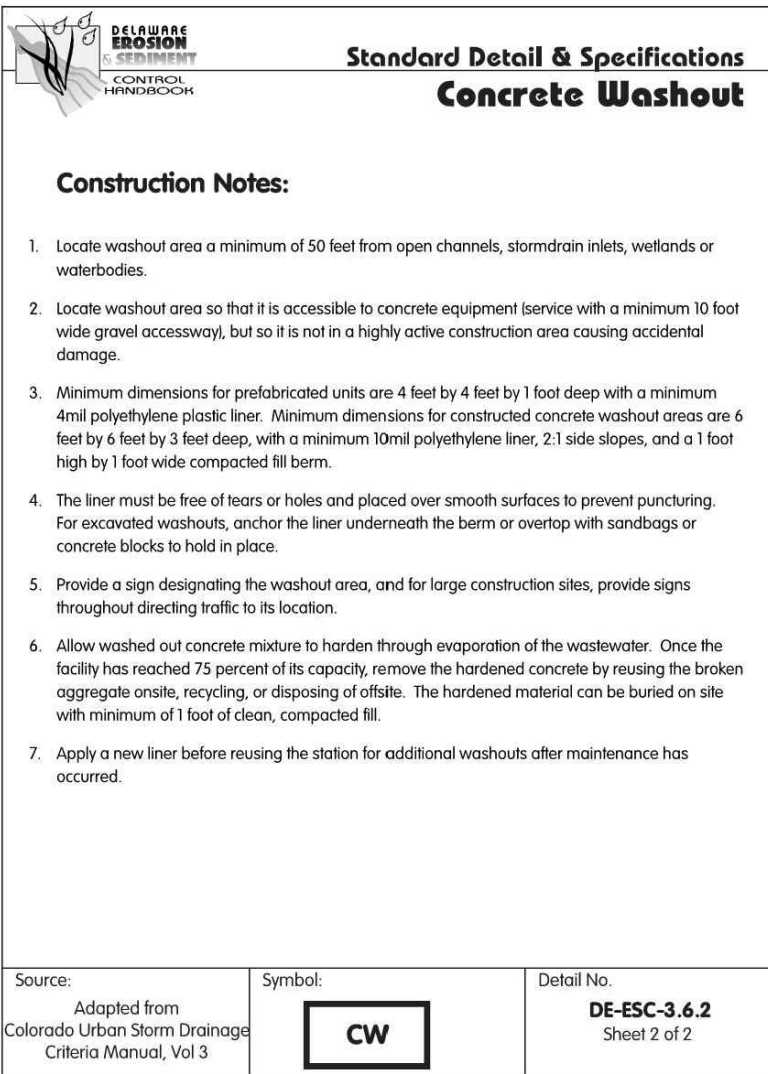
DRAWING SCALE AS NOTED

DRAWN BY

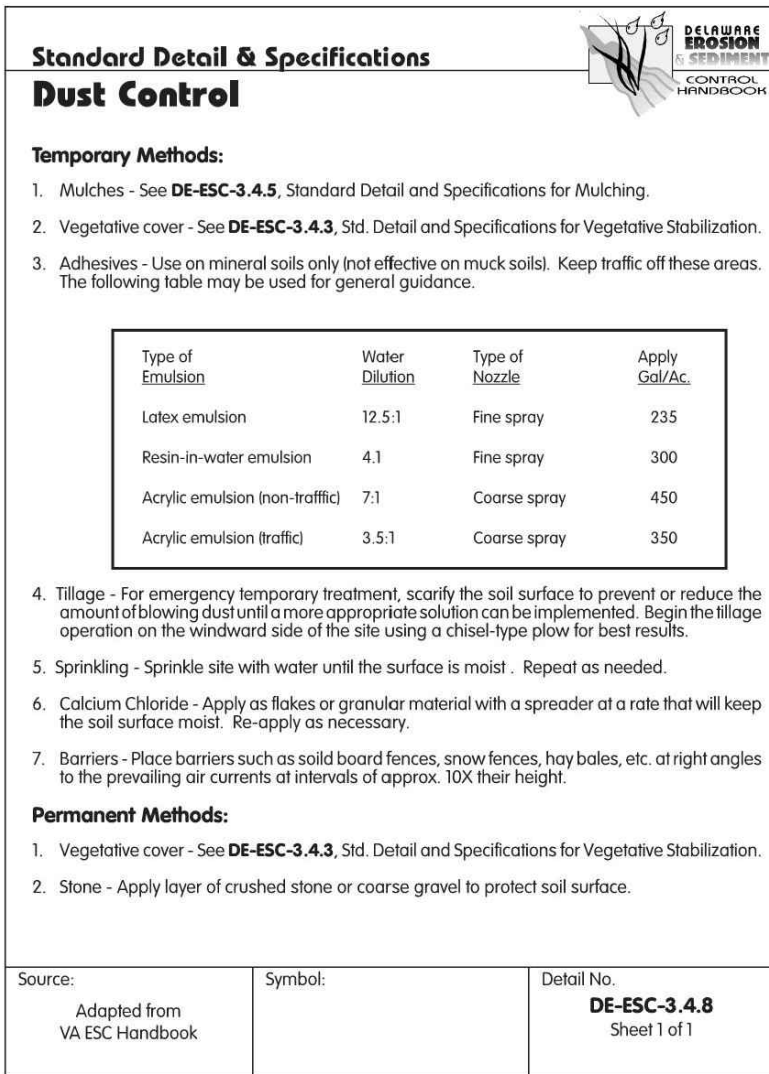
APPROVED



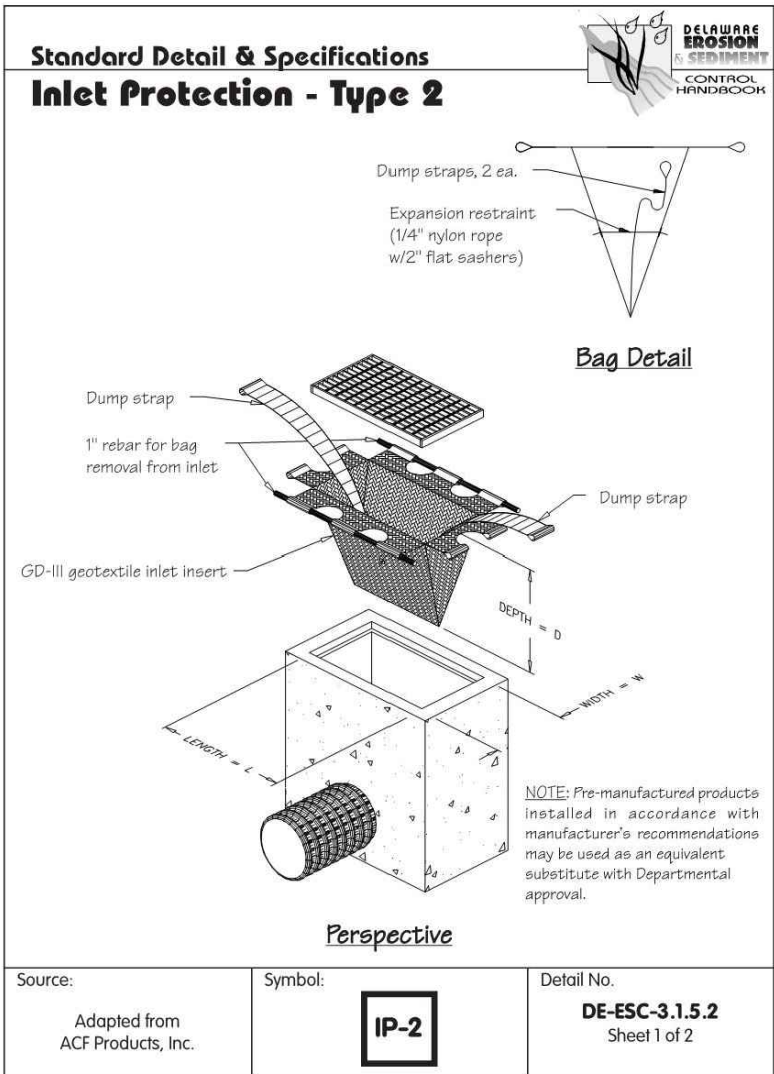
Effective February 2019



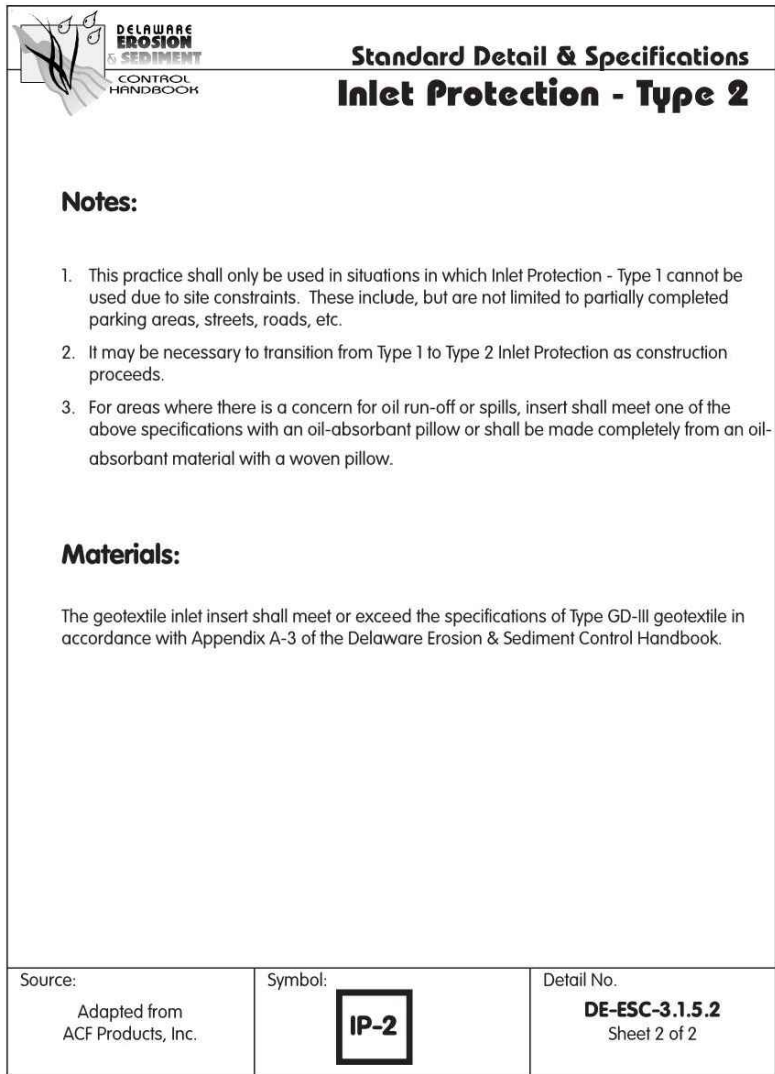
Effective February 2019



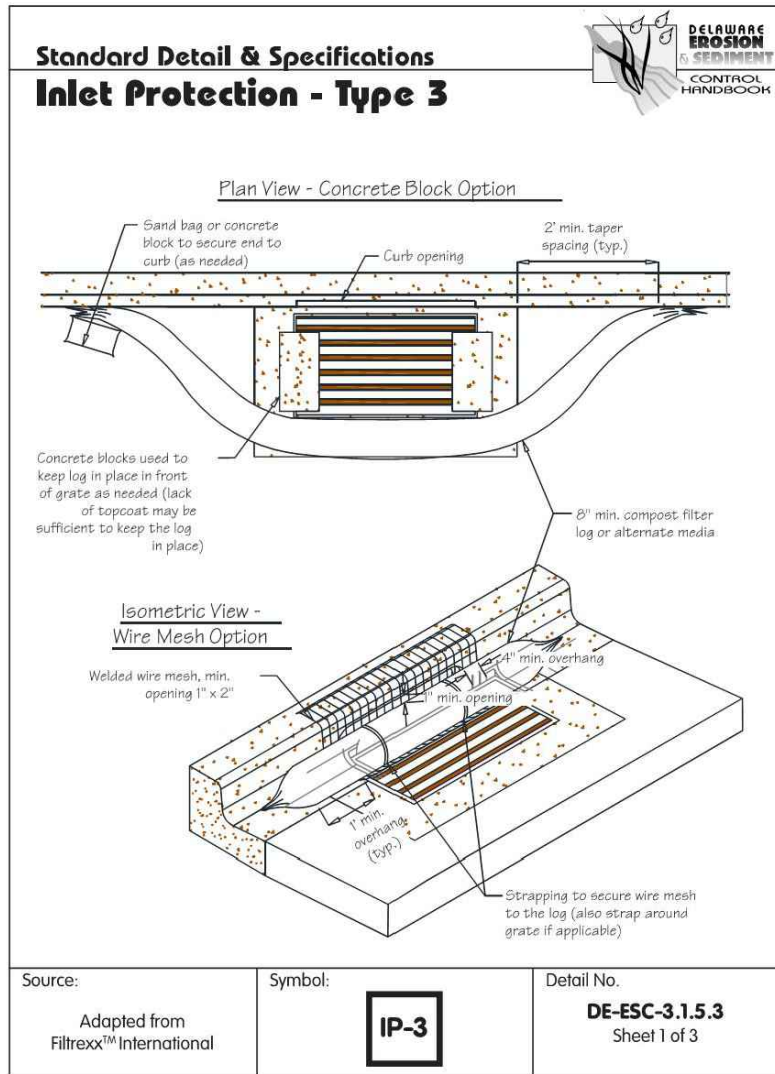
Effective February 2019



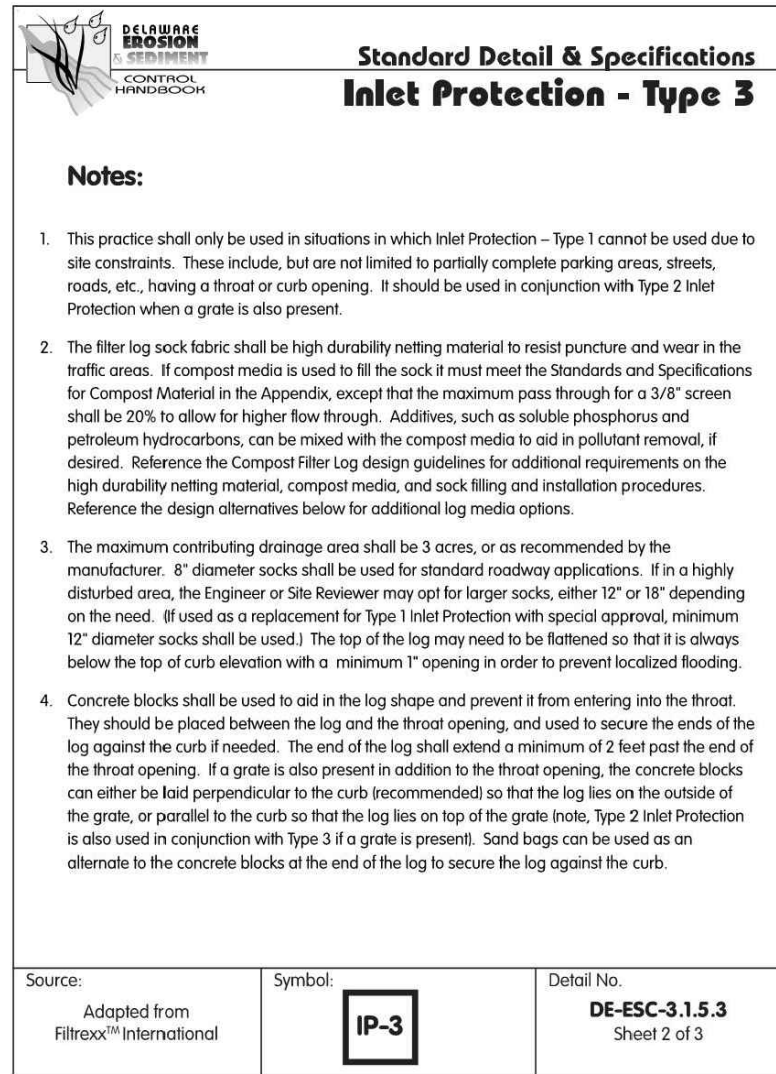
Effective February 2019



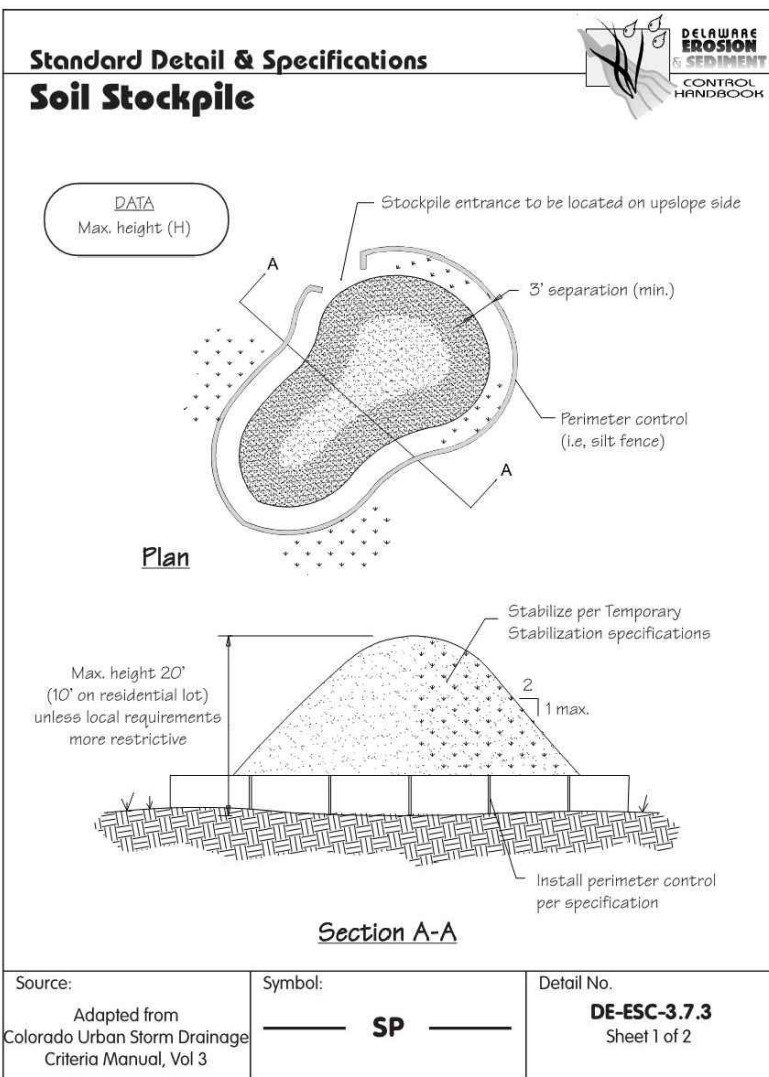
Effective February 2019



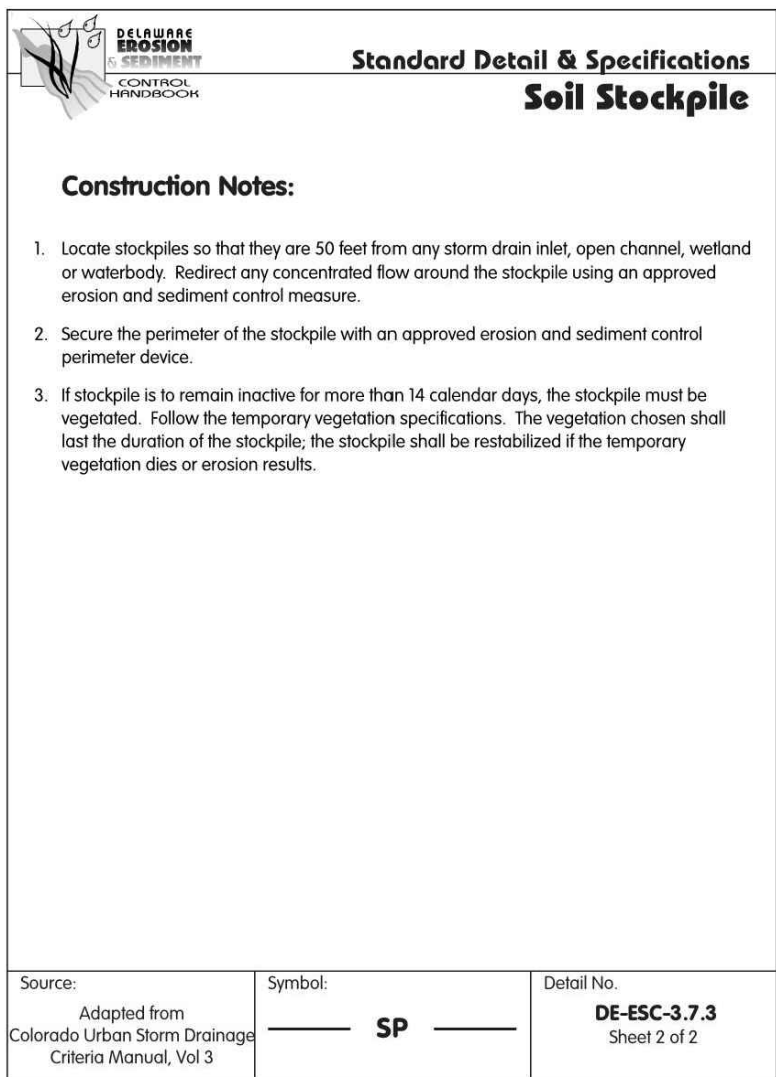
Effective February 2019



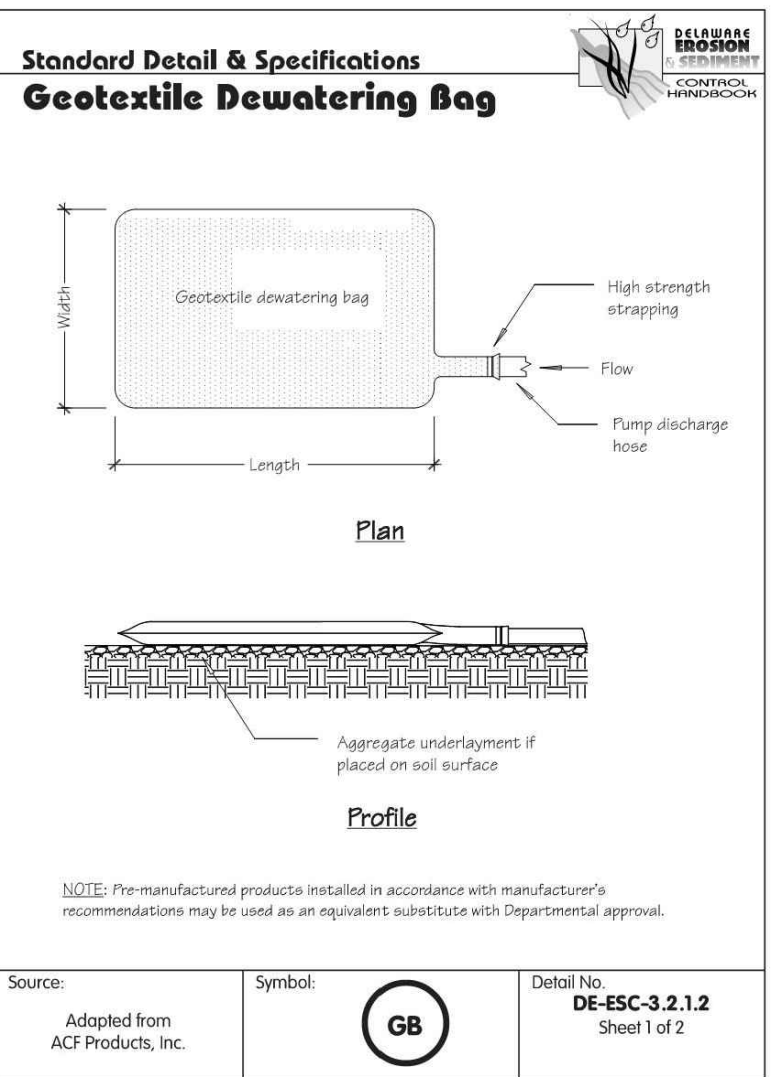
Effective February 2019



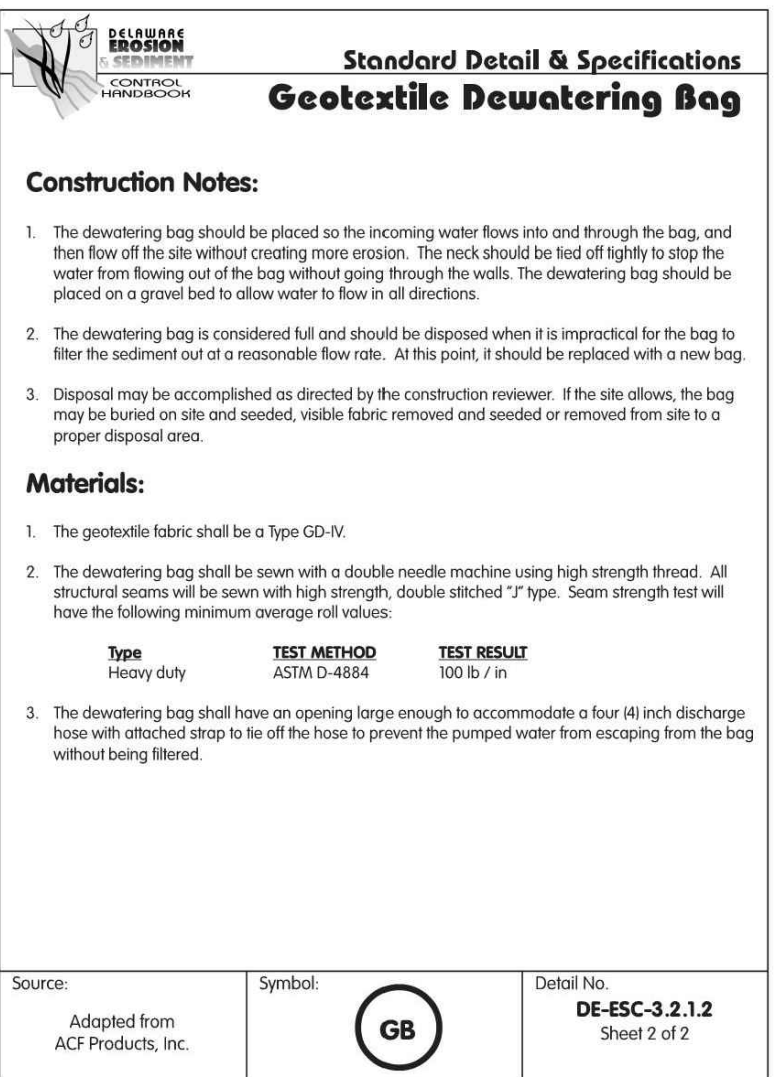
Effective February 2019



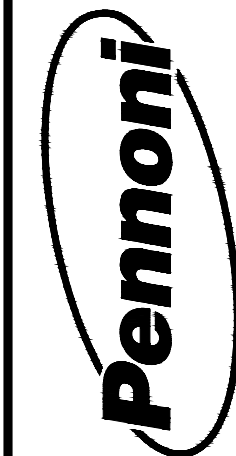
Effective February 2019



Effective February 2019



Effective February 2019



PENNONI ASSOCIATES INC.
1900 Market Street, Suite 300
Philadelphia, PA 19103
T 215.222.3000 F 215.222.3588

ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR AND OWNER MUST BE NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH WORK

CITY HALL PARKING LOT RECONSTRUCTION

220 SOUTH MAIN STREET
NEWARK, DE 19711

SEDIMENT AND STORMWATER
DETAILS

CITY OF NEWARK

220 SOUTH MAIN STREET
NEWARK, DE 19711

NO.	DATE	REVISIONS	BY
1	06-09-2023	ADDITION #2	ALS

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PROJECT: **CNEWK22005**
DATE: 2023-05-18
DRAWING SCALE: N.T.S.
DRAWN BY: MRW/ALS
APPROVED BY: MJE

CS4601
SHEET 19 OF 21

Standard Detail & Specifications									
Vegetative Stabilization									
TEMPORARY SEEDING BY RATES, DEPTHS AND DATES									
Mix #	Species ¹	Seeding Rate	Optimum Seeding Dates ²						Planting Depth ³
			1st Generation Winter Planting			2nd Generation			
			April	May	June	July	Aug.	Sept.	
1	Certified Seed	125/lb	100-1000	2-4	1-4	1-4	1-4	1-4	1/2 inches
2	Timothy	125	4	0	0	0	0	0	1/2 inches
3	Timothy	125	4	0	0	0	0	0	1/2 inches
4	Timothy	125	4	0	0	0	0	0	1/2 inches
5	Timothy	125	4	0	0	0	0	0	1/2 inches
6	Annual Ryegrass	125	4	0	0	0	0	0	1/2 inches
7	Annual Ryegrass	125	4	0	0	0	0	0	1/2 inches
8	Annual Ryegrass	125	4	0	0	0	0	0	1/2 inches
9	Annual Ryegrass	125	4	0	0	0	0	0	1/2 inches
10	Annual Ryegrass	125	4	0	0	0	0	0	1/2 inches
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157	Annual Ryegrass	125	4	0	0	0	0	0	1/2 inches
158	Annual Ryegrass	125	4	0	0	0	0	0	1/2 inches
159	Annual Ryegrass	125	4	0	0	0	0	0	1/2 inches
160	Annual Ryegrass	125	4	0	0	0	0	0	1/2 inches
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162	Annual Ryegrass	125	4	0	0	0	0	0	1/2 inches
163	Annual Ryegrass	125	4	0	0	0	0	0	1/2 inches
164	Annual Ryegrass	125	4	0	0	0	0	0	1/2 inches
165	Annual Ryegrass	125	4	0	0	0	0	0	1/2 inches
166	Annual Ryegrass								

Bid Item Descriptions:

1. BASE BID: all Items associated with the work within the NPD lot and Admin EV space area

1.A. Newark Police Department (NPD) Lot

1.A.1. Mobilization/Demobilization: This lump sum bid item includes, but is not limited to, bonding, insurance, shop drawings, meetings, construction stakeout, pre-construction video, utility locating, staging, movement of equipment, site maintenance, erosion and sedimentation pollution control, site clean-up, replacement of any damaged property, lawn and site restoration, and as-built plans. The Contractor shall provide redline plan markups, including as-built rim and invert elevations. Payment will be scheduled as follows: fifty (50) percent upon issuance of Notice to Proceed and the balance upon completion of the project.

1.A.2. Demolition of Landscape & Islands: Price and payment shall be full compensation for furnish, setup, and removal of landscape and islands, including curbing, for preparation of the site, including disposal, excavation, and shoring. This item is measured per square yard.

1.A.3. Demolition of Concrete Curb: This work consists of the removal of concrete curbing to the full depth for installation of replacement curbing including labor, equipment and excavation of the materials. The work shall include sawcutting and removal of adjacent asphalt pavement as needed for curb replacement. Concrete curb shall be sawcut at the limits of removal and excavated to the depth of the replacement curb section including the GABC base layer. Any pavement removals shall be sawcut around the full perimeter of pavement removal. The demolition of concrete curb and any needed asphalt pavement to be paid for under this section shall be the actual linear feet of curb removed and disposed of in a lawful manner. Price and payment will constitute full compensation for the removal and disposal of concrete and asphalt, and excavated material; and for all labor, equipment, tools, and incidentals necessary to complete the work.

1.A.4. Pavement Milling: Work under this item includes all labor, equipment, tools, disposal costs, and incidentals necessary to complete the scope of work shown on the contract drawings and described in this specification. Payment for this item will be as a unit price. Mill or plane bituminous concrete to a 2-inch depth as specified in accordance with contract documents and the latest edition of DelDOT's Standard Specifications for Road and Bridge Construction. Remove and dispose of recovered milling materials. The construction methods for Pavement Milling shall conform to Section 760 of the latest edition of DelDOT's Standard Specifications for Road and Bridge Construction. The number of square yards of Pavement Milling to be paid for under this section shall be the square yards milled, removed, and disposed. The square yards measured as provided above, shall be paid for at the contract unit

price bid per square yard for this item which price and payment shall constitute full compensation for all labor, equipment, tools, and incidentals necessary to complete the work.

1.A.5. Remove Existing Tree: Price and payment shall be full compensation for furnish, setup, and removal of trees for preparation of the site, including disposal, excavation, and shoring. This item is measured per each.

1.A.6. 6" Graded Aggregate Base Course: Work under this item includes all labor, equipment, tools, disposal costs, and incidentals necessary to complete the scope of work shown on the contract drawings and described in this specification. Payment for this item will be as a unit price. Graded Aggregate Base Course (GABC) shall include furnishing, placing and compacting graded aggregate base course on a prepared subgrade for locations of full depth pavement. GABC for curbing is paid as part of the Concrete Curb bid item. Subgrade must be compacted to at least 95% compaction on a modified proctor. Graded Aggregate Base Course shall conform to the material and construction method requirements in Section 301 of the latest edition of DeIDOT's Standard Specifications for Road and Bridge Construction and the plan details. The number of cubic yards of GABC to be paid for under this section shall be the cubic yards furnished, graded, and compacted during the performance of work as directed by the Owner or Engineer that are not paid under other bid items. Price and payment shall be full compensation for furnishing all labor, equipment, materials, and proof rolling necessary to complete the work.

1.A.7./1.A.8. Superpave Type C, 115 Gyrations, PG 64-22 2"- 4" Depth: Work under this item includes all labor, equipment, tools, disposal costs, and incidentals necessary to complete the scope of work shown on the contract drawings and described in this specification. Payment for this item will be as a unit price. Superpave Type C shall consist of furnishing and installing Superpave Type C hot-mix, hot-laid bituminous concrete at 2 or 4" compacted depth in accordance with DeIDOT Specifications and in conformity with lines and grades of the existing asphalt. The materials and construction methods shall conform to the material and construction requirements in Section 401 of the latest edition of DeIDOT's Standard Specifications for Road and Bridge Construction and the cross-section shown on the plans for Superpave Type C. This item includes tack coat and edge sealant at pavement joints and curb faces. Materials for tack coat shall conform to Section 810 of the Standard Specifications.

The number of square yards of Superpave Type C to be paid for under this section shall be the square yards furnished, graded, compacted, and accepted including bituminous asphalt tack coat.

1.A.9. Bituminous Pavement Leveling Course, Type C: Work under this item includes all labor, equipment, tools, disposal costs, and incidentals necessary to complete the

scope of work shown on the contract drawings and described in this specification. Payment for this item will be as a unit price. Description: This work consists of furnishing and placing a Superpave hot-mix, type C, leveling/scratch course, at locations approved and/or directed by the Engineer. Materials and Execution: The Superpave Type C hot-mix used for leveling shall have the same gyrations and asphalt performance grade requirements as the lift to be placed immediately above it. A maximum nominal aggregate size of 4.75 mm shall be used for the leveling course. Construction methods shall be in accordance with Section 401 of the Standard Specifications and the Superpave hot-mix specifications found elsewhere in these Special Provisions. Leveling course shall be placed as directed by the Engineer. Method of Measurement and Basis of Payment: The method of measurement and basis of payment shall be per ton as directed, completed, and accepted.

1.A.10. Superpave BCBC Repair, 115 Gyration, PG 64-22: Work under this item includes all labor, equipment, tools, disposal costs, and incidentals necessary to complete the scope of work shown on the contract drawings and described in this specification. Payment for this item will be as a unit price. Superpave BCBC Repair shall consist of removal of existing base and subbase material to a depth of 4 inches below the milled pavement surface and furnishing and installing Superpave BCBC hot-mix, hot-laid bituminous concrete at 4-inch compacted depth in accordance with DelDOT Specifications and in conformity with lines and grades of the asphalt and the cross-section shown on the plans. Superpave BCBC locations will be identified and directed by the Engineer following Pavement Milling. The materials and construction methods shall conform to the material and construction requirements in Section 401 of the latest edition of DelDOT's Standard Specifications for Road and Bridge Construction and the cross-section shown on the plans for Superpave BCBC. The number of square yards of Superpave BCBC Repair Type C to be paid for under this section shall be the square yards furnished, graded, compacted, and accepted including bituminous asphalt tack coat.

1.A.11. Concrete Curb: Work under this item includes all labor, equipment, tools, and incidentals necessary to complete the scope of work shown on the contract drawings and described in this specification. Payment for this item will be as a unit price and shall consist of excavation, furnishing and installing all materials in the curb section, forming, finishing, and protection of the concrete, compaction, installing control, expansion, and contraction joints, shop drawings, and all other appurtenant labor, work, supervision, tools, equipment, materials, and all other items incidental thereto. Furnish and install Portland cement concrete curb as detailed on the contract drawings including GABC bearing material set on prepared subgrade and replacement of any adjacent asphalt base course and subgrade removed for installation of curbing. Subgrade and subbase replacement

shall consist of 6 inches of GABC and 4 inches of Superpave BCBC. The construction methods shall conform to Section 701 of the latest edition of DelDOT's Standard Specifications for Road and Bridge Construction. The number of linear feet to be paid for under this section shall be the linear feet of curb installed, completed and accepted. Price and payment shall be full compensation for furnishing all labor, equipment, materials, and incidentals, necessary to complete the work.

1.A.12. Depressed Curb: ~~Work under this item includes all labor, equipment, tools, and incidentals necessary to complete the scope of work shown on the contract drawings and described in this specification. Payment for this item will be as a unit price and shall consist of excavation, furnishing and installing all materials in the curb section, forming, finishing, and protection of the concrete, compaction, installing control, expansion, and contraction joints, shop drawings, and all other appurtenant labor, work, supervision, tools, equipment, materials, and all other items incidental thereto. Furnish and install Portland cement concrete curb as detailed on the contract drawings including GABC bearing material set on prepared subgrade and replacement of any adjacent asphalt base course and subgrade removed for installation of curbing. Subgrade and subbase replacement shall consist of 6 inches of GABC and 4 inches of Superpave BCBC. The construction methods shall conform to Section 701 of the latest edition of DelDOT's Standard Specifications for Road and Bridge Construction. The number of linear feet to be paid for under this section shall be the linear feet of curb installed, completed and accepted. Price and payment shall be full compensation for furnishing all labor, equipment, materials, and incidentals, necessary to complete the work.~~ ~~Price and payment shall be full compensation for furnishing and installing depressed concrete curb, including excavation, furnishing and installing all materials in the depressed curb section, forming, finishing, and protection of the concrete, compaction, installing control, expansion, and contraction joints, shop drawings, and all other appurtenant labor, work, supervision, tools, equipment, materials, and all other items incidental thereto. This item is measured and paid per linear feet of sidewalk installed.~~

1.A.13. Concrete Sidewalk: Price and payment shall be full compensation for furnishing and installing concrete sidewalk, including excavation, furnishing and installing all materials in sidewalk section (4" concrete, 4" AASHTO #57 stone), forming, finishing, and protection of the concrete, compaction, installing control, expansion, and contraction joints, shop drawings, and all other appurtenant labor, work, supervision, tools, equipment, materials, and all other items incidental thereto. This item is measured and paid per square yard of sidewalk installed.

1.A.14./1.A.15. Concrete Retaining Wall: Price and payment shall be full compensation for furnishing and installing concrete retaining wall, including excavation, furnishing and installing all materials in the retaining wall section, forming, finishing, and

protection of the concrete, compaction, installing control, expansion, and contraction joints, sheeting and shoring, dewatering, 6" perforated PVC foundation drainage pipe, cleanouts, geotextile fabric, #57 stone, backfill, shop drawings, and all other appurtenant labor, work, supervision, tools, equipment, materials, and all other items incidental thereto. This item is measured and paid per linear feet of sidewalk installed.

1.A.16. Geogrid Stabilization: Price and payment shall be full compensation for furnishing and installing geogrid stabilization including excavation, furnishing and installing all materials in the ~~geogrid stabilization detail~~gravel stabilizing geocell system, forming, finishing, and protection of the geogridsoil backfill, topsoil and seed, compaction, shop drawings, and all other appurtenant labor, work, supervision, tools, equipment, materials, and all other items incidental thereto. This item is measured and paid per square yard.

1.A.17. Concrete Parking Bumper: Price and payment shall be full compensation for furnishing and installing 7' precast concrete parking bumper, ~~including all materials in the concrete parking bumper detail and anchoring into pavement, forming, finishing, and protection of the concrete, compaction, shop drawings,~~ and all other appurtenant labor, work, supervision, tools, equipment, materials, and all other items incidental thereto. This item is measured and paid per each of sidewalk installed.

1.A.18. 8' Security Fence: Price and payment shall be full compensation for furnishing and installing the 8' Aberdeen or approved equal fence including excavation, furnishing and installing all materials in the fence specification, forming, finishing, and protection of the fence, compaction, shop drawings, and all other appurtenant labor, work, supervision, tools, equipment, materials, and all other items incidental thereto. This item is measured and paid per Linear Foot of sidewalk installed.

1.A.19. Two 22' Wide Sliding Gates: Price and payment shall be full compensation for furnishing and installation of two 22' wide sliding gates, including ~~excavation, furnishing and installing all materials, forming, finishing, and protection of the concrete, compaction, installing control, expansion, and contraction joints,~~ shop drawings, and all other appurtenant labor, work, supervision, tools, equipment, materials, and all other items incidental thereto. This item is measured and paid per lump sum~~each of gates installed.~~

1.A.20. Two 3' Wide Swing Gates: Price and payment shall be full compensation for furnishing and installation of two 3' wide swing gates, ~~including including excavation, furnishing and installing all materials, forming, finishing, and protection of the concrete, compaction, installing control, expansion, and contraction joints,~~ shop drawings, and all other appurtenant labor, work,

supervision, tools, equipment, materials, and all other items incidental thereto. This item is measured and paid per ~~each of gates installed~~ lump sum.

1.A.21. 12' Wide Double Swing Gate: Price and payment shall be full compensation for furnishing and installation of two 12' wide double swing gates, including ~~excavation, furnishing and installing all materials, forming, finishing, and protection of the concrete, compaction, installing control, expansion, and contraction joints,~~ shop drawings, and all other appurtenant labor, work, supervision, tools, equipment, materials, and all other items incidental thereto. This item is measured and paid per ~~each of gates installed~~ lump sum.

1.A.22. Gate Automation: Price and payment shall be full compensation for furnishing and installing the gate automation for the vehicular and pedestrian gates including ~~excavation,~~ furnishing and installing all materials including two HySecurity HD25 SlideSmart gate operators, 3 stand alone card readers, intercoms, 3-button station to control gate, ul325 compliant photo and edge sensors, safety and free exit loops, the fence specification, forming, finishing, and protection of the gate automation, compaction, shop drawings, and all other appurtenant labor, work, supervision, tools, equipment, materials, and all other items incidental thereto. This item is measured and paid per lump sum ~~of sidewalk installed~~.

1.A.23. Stormwater Yard Inlet: Price and payment shall be full compensation for furnishing and installing the new yard inlet, including excavation, ~~furnishing and installing all materials in the yard inlet~~ Nyloplast Drain Basin detail, ~~forming, finishing, and protection of the inlet, compaction,~~ shop drawings, and all other appurtenant labor, work, supervision, tools, equipment, materials, and all other items incidental thereto. This item is measured and paid per each of ~~sidewalk inlet~~ installed.

1.A.24. 6" PVC Connection Into Existing Inlet: Price and payment shall be full compensation for ~~furnishing, drilling, and installing connecting~~ the new 6" PVC pipe into the existing ~~inlet. Including inlet including~~ excavation, coreing, sealing with grout, furnishing and installing all materials, ~~forming, finishing, protection of the existing inlet, compaction, shop drawings,~~ and all other appurtenant labor, work, supervision, tools, equipment, materials, and all other items incidental thereto. This item is measured and paid per each of ~~sidewalk installed inlet connections made.~~

1.A.25. 6" PVC Storm Sewer Pipe: Price and payment shall be full compensation for furnishing and installing the new 6" solid PVC storm sewer pipe, including excavation, bedding and backfill, furnishing and installing all materials, coupling to the 6" perforated PVC foundation drainage pipe, ~~forming, finishing, and protection of the PVC pipe, compaction,~~ shop drawings, and all other appurtenant

labor, work, supervision, tools, equipment, materials, and all other items incidental thereto. This item is measured and paid per linear foot of sidewalk-pipe installed. This bid item is for the solid PVC pipe only; the perforated PVC foundation drainage pipe is incidental to the Retaining Wall bid item.

1.A.26. Remove and Replace Fire Hydrant: Price and payment shall be full compensation for removal and disposal of the existing hydrant, ~~furnishing and installing the new hydrant,~~ including excavation, bedding and backfill, furnishing and installing all pipng and materials in the fire hydrant detail, ~~forming, finishing, and protection of the hydrant, compaction,~~ shop drawings, and all other appurtenant labor, work, supervision, tools, equipment, materials, and all other items incidental thereto. This item is measured and paid per each of sidewalk-hydrants installed.

1.A.27. Epoxy Pavement Markings: Work under this item includes all labor, equipment, tools, and incidentals necessary to complete the scope of work shown on the contract drawings and described in this specification. Payment for this item will be as a lump sum price. Pavement Markings shall be applied using acceptable furnished materials in colors meeting the requirements for parking areas, including parking space, no parking area, lane line, and crosswalk striping, stop bars, arrows, and "NO PARKING", "STOP", "FIRE LANE and "ONLY" lettering. This work consists of reflective pavement markings. The Contractor shall furnish the epoxy; maintenance of traffic; and all labor, equipment and incidentals necessary to apply pavement markings in a safe and efficient manner. The materials and construction methods shall conform to the material and construction requirements in Section 1071 of the latest edition of DelDOT's Standard Specifications for Road and Bridge Construction and the details shown on the plans. Parking space striping, "no parking" area striping, and Transverse pavement markings including crosswalks, stop bars, arrows, and "NO PARKING", "STOP", and "ONLY" lettering shall be epoxy pavement markings in accordance with Section 1071.02 of the latest edition of DelDOT's Standard Specifications for Road and Bridge Construction. This item will not be measured but will be paid for at the contract lump sum price bid for Epoxy Pavement Marking. The price and payment shall constitute full compensation for all materials, labor, equipment, tools, and incidentals necessary to complete the work.

1.A.28. Bollard: Price and payment shall be full compensation for furnish, setup, and installation of bollards. This item is measured and paid per each.

1.A.29. Miscellaneous Excavation and Backfill: Price and payment shall be full compensation for furnishing all labor, equipment, unclassified excavation, protection of existing utilities, provision of GABC2A or ~~#572B~~ stone, backfill, compaction, sheeting and shoring, dewatering, disposal of all excess excavated materials, and all other appurtenant labor, work, supervision, tools, equipment, materials, and all other items incidental thereto **beyond the contract depths and**

limits as directed by the Engineer and not paid under other bid items. This item is measured per cubic yard.

1.B. Electrical

- 1.B.1. Demolition of Light Poles and Fixtures: Work under this item includes all labor, equipment, tools, disposal costs, and incidentals necessary to complete the scope of work shown on the contract drawings and described in this specification. Payment for this item will be as a unit price. This work consists of the removal of poles, light fixtures and lamps. The Owner shall have right of salvage for any materials removed. Should right of salvage be waived all materials removed shall become the property of the Contractor for salvage, recycle, or disposal. The poles and fixtures and lamps shall be removed and disposed of in a lawful manner. The number of light pole poles and fixtures to be paid for under this section shall be the actual number of pole and fixture units removed and disposed of in a lawful manner. Price and payment will constitute full compensation for the removal and disposal of poles, light fixtures and lamps; and for all labor, equipment, tools, and incidentals necessary to complete the work.
- 1.B.2. Demolition of Light Pole Bases: Work under this item includes all labor, equipment, tools, and incidentals necessary to complete the scope of work shown on the contract drawings and described in this specification. Payment for this item will be as a unit price per each. This work consists of the removal of concrete pole bases. The concrete and conduit shall be removed to full depth and disposed of in a lawful manner. The number of light pole bases to be paid for under this section shall be the actual number removed and disposed of in a lawful manner. Price and payment will constitute full compensation for the removal and disposal of concrete, conduit, wire and excavated material; and for all labor, equipment, tools, and incidentals necessary to complete the work.
- 1.B.3./ 1.B.4. New Light Poles, Fixtures, 11'6" High, and 22'6" to 24'6" High: Work under the Light Pole and Fixture item includes all labor, equipment, tools, and incidentals necessary to complete the scope of work shown on the contract drawings and described in this specification. Payment for these items will be as a unit price. This work consists of furnishing and installing lighting poles and fixtures in accordance with the drawings. Poles and fixtures shall be installed at the locations shown on the drawings or as directed by the Engineer. The number of Light Poles and Fixtures to be paid for under this section shall be the actual number furnished, installed, and accepted. As provided above, these items shall be paid for at the contract unit price bid per each for which price and payment shall constitute full compensation for all materials, labor, equipment, tools, testing, and incidentals necessary to complete the work.
- 1.B.5. Pole Base A: Price and payment shall be full compensation for furnishing and

installing the 30" high pole base with a 6' deep footing, including excavation, furnishing and installing all materials in the pole base detail, forming, finishing, and protection of the pole base, compaction, shop drawings, and all other appurtenant labor, work, supervision, tools, equipment, materials, and all other items incidental thereto. This item is measured and paid per each of sidewalk pole base installed.

1.B.6. Pole Base B: Price and payment shall be full compensation for furnishing and installing the 4" high pole base with a 5' deep footing, including excavation, furnishing and installing all materials in the pole base detail, forming, finishing, and protection of the pole base, compaction, shop drawings, and all other appurtenant labor, work, supervision, tools, equipment, materials, and all other items incidental thereto. This item is measured and paid per each of sidewalk pole base installed.

1.B.7. Pole Base C: Price and payment shall be full compensation for furnishing and installing the 4" high pole base with a 6' deep footing, including excavation, furnishing and installing all materials in the pole base detail, forming, finishing, and protection of the pole base, compaction, shop drawings, and all other appurtenant labor, work, supervision, tools, equipment, materials, and all other items incidental thereto. This item is measured and paid per each of sidewalk pole base installed.

1.B.8. HDPE Pole Base Covers: Price and payment shall be full compensation for furnishing and installing the HDPE pole base covers, ~~including all materials in the HDPE pole base cover detail, forming, finishing, and protection of the concrete, compaction, shop drawings,~~ and all other appurtenant labor, work, supervision, tools, equipment, materials, and all other items incidental thereto. This item is measured and paid per each of sidewalk pole base cover installed.

1.B.9. Composite and Concrete Pads For Future Electrical Equipment : The lump sum cost for this bid item includes, but is not limited to, ~~mobilization and demobilization,~~ excavation and backfill, ~~forming, finishing, furnishing, and protection of the concrete, reinforcing, bedding, compaction, installing control, expansion, and contraction joints, construction, erosion and sediment control measures,~~ pipe and conduit penetrations, ~~restoration,~~ and any other measures required to complete all of the work identified on the project plans and specifications.

1.B.10. Remove Electrical Pedestal: Price and payment shall be full compensation for furnish, setup, and removal of electrical pedestal for preparation of the site, including disposal, excavation, and shoring. This item is measured per each.

1.B.11. Relocate Electrical Pedestal: Price and payment shall be full compensation for furnish, setup, removal, and relocation of electrical pedestal for preparation of the site, including disposal, excavation, and shoring. This item is measured per each.

1.B.12. Electrical Conduit: Work under this item includes all labor, equipment, tools, and incidentals necessary to complete the scope of work shown on the contract drawings and described in this specification. Payment for this item will be as a unit price per linear foot. This section includes furnishing and installing conduit, raceways and junctions including materials and equipment for the completion of work. Excavation and backfill shall be included in this item as may be needed for installation and restoration. All work shall conform to the National Electrical Code (NEC). All material shall be new and where applicable shall be UL labeled or approved.

1.B.13. Electrical Wiring: Work under this item includes all labor, equipment, tools, and incidentals necessary to complete the scope of work shown on the contract drawings and described in this specification. Payment for this item will be as a unit price per linear foot. This section includes furnishing and installing electrical wiring including materials and equipment for the completion of work. Excavation and backfill shall be included in this item as may be needed for installation and restoration. All work shall conform to the National Electrical Code (NEC). All material shall be new and where applicable shall be UL labeled or approved.

1.B.14. Electrical Work: Work under this item includes all labor, equipment, tools, and incidentals necessary to complete the scope of work shown on the contract drawings and described in this specification. Payment for this item will be as a lump sum price. This section includes all miscellaneous electrical work required for the completion of the ~~lighting rehabilitation~~ project not covered under other items including 3rd party electrical inspections, and code compliance certifications with Authorities Having Jurisdiction. All work shall conform to the National Electrical Code (NEC). All material shall be new and where applicable shall be UL labeled or approved. This item will not be measured, but will be paid for at the contract lump sum price bid for Electrical Work. The price and payment shall constitute full compensation for all materials, labor, equipment, tools, and incidentals necessary to complete the work.

1.C. Admin EV Spaces

1.C.1. Demolition of Concrete Curb: Refer to Item 1.A.3.

1.C.2. Pavement Milling: Refer to Item 1.A.4.

1.C.3. 6" Graded Aggregate Base Course: Refer to Item 1.A.~~67~~.

1.C.4. Superpave Type C, 115 Gyrations, PG 64-22 - 2" Depth: Refer to Item 1.A.~~78~~.

1.C.5. Superpave BCBC, 115 Gyrations, PG 64-22 - 4" Depth: Refer to Item 1.A.~~89~~.

1.C.6. Concrete Curb: Refer to Item 1.A.1~~12~~.

1.C.7. Pavement Markings: Refer to Item 1.A.2~~78~~.

1.C.8. Signs: Price and payment shall be full compensation for furnishing and installing the new signs, including ~~excavation~~, furnishing and installing, ~~all materials in the sign details, forming, finishing, and protection of the hydrant, compaction~~, shop drawings, and all other appurtenant labor, work, supervision, tools, equipment, materials, and all other items incidental thereto. This item is measured and paid per each of ~~sidewalk signs~~ installed.

2. ADD ITEM – Repave Admin Lot:

2.1. Pavement Milling: Refer to Item 1.A.4.

2.2. Superpave Type C, 115 Gyrations, PG 64-22 - 2" Depth: Refer to Item 1.A.~~78~~.

2.3. Bituminous Pavement Leveling Course, Type C: Refer to Item 1.A.~~910~~.

2.4. Superpave BCBC, 115 Gyrations, PG 64-22: Refer to Item 1.A.~~811~~.

2.5. Pavement Markings: Refer to Item 1.A.2~~78~~.

2.6. Signs: Refer to Item 1.C.8.

2.7. Bollard: Refer to Item 1.A.2~~86~~.

3. ALTERNATIVE ITEM – Reconfigure Admin Lot:

3.1. Demolition of Landscape & Islands: Refer to Item 1.A.2.

3.2. Demolition of Concrete Curb: Refer to Item 1.A.3.

3.3. Demolition of Concrete Sidewalk: This work consists of the removal of concrete sidewalk ~~and curb skirts~~ for replacement or as needed for replacement of light pole bases to the full depth for installation of replacement sidewalk including labor, equipment and excavation of the materials. ~~Curb skirts are defined as the concrete paneling approximately 18" in width located behind the curb.~~ Concrete sidewalk ~~and curb skirts~~ shall be sawcut at the nearest joint, broken, and removed or excavated to the depth of the replacement sidewalk section including the GABC base layer. The demolition of concrete sidewalk ~~and curb skirts~~ to be paid for under this section shall

be square yards removed and disposed of. Price and payment will constitute full compensation for the removal and disposal of concrete, and excavated material; and for all labor, equipment, tools, and incidentals necessary to complete the work.

- 3.4. Demolition of Full Depth Pavement: This work consists of the removal of asphalt pavement to the full depth for installation of replacement asphalt including labor, equipment and excavation of the materials. The work shall include sawcutting and removal of adjacent asphalt pavement as needed for full depth replacement. Asphalt shall be excavated to the depth of the replacement curb section including the GABC base layer. Any pavement removals shall be sawcut around the full perimeter of pavement removal. The demolition of asphalt pavement to be paid for under this section shall be the actual square yard of asphalt removed and disposed of in a lawful manner. Price and payment will constitute full compensation for the removal and disposal of asphalt, and excavated material; and for all labor, equipment, tools, and incidentals necessary to complete the work.
- 3.5. Pavement Milling: Refer to Item 1.A.4.
- 3.6. Remove Existing Tree: Refer to Item 1.A.5.
- 3.7. Miscellaneous Excavation and Backfill: Refer to Item 1.A. ~~296~~.
- 3.8. 6" Graded Aggregate Base Course: Refer to Item 1.A. ~~67~~.
- 3.9. Superpave Type C, 115 Gyrations, PG 64-22 - 2" Depth: Refer to Item 1.A. ~~78~~.
- 3.10. Superpave BCBC, 115 Gyrations, PG 64-22 - 4" Depth: Refer to Item 1.A. ~~89~~.
- 3.11. Bituminous Pavement Leveling Course, Type C: Refer to Item 1.A. ~~910~~.
- 3.12. Superpave BCBC Repair, 115 Gyrations, PG 64-22: Refer to Item 1.A. ~~110~~.
- 3.13. Deduction for Pole Base C: This Bid Item is to account for the replacement of one Pole Base C from the base bid with a Pole Base A. This Item shall be bid at the exact unit price of Item 1.B.7.
- 3.14. Pole Base A: Refer to Item 1.B.5.
- 3.15. HDPE Pole Base Covers: ~~Refer to Item 1.B.8. Price and payment shall be full compensation for furnishing and installing HDPE Pole Base Covers, including furnishing and installing, finishing, and protection of the HDPE pole base cover, shop drawings, and all other appurtenant labor, work, supervision, tools, equipment, materials, and all other items incidental thereto. This item is measured and paid per each of sidewalk installed.~~

3.16. Concrete Curb: Refer to Item 1.A.1~~12~~.

3.17. Concrete Sidewalk: Refer to Item 1.A.1~~34~~.

3.18. Concrete Steps: Price and payment shall be full compensation for furnishing and installing concrete steps, including excavation, furnishing and installing all materials in the concrete step detail, forming, finishing, and protection of the concrete, compaction, installing control, expansion, and contraction joints, shop drawings, and all other appurtenant labor, work, supervision, tools, equipment, materials, and all other items incidental thereto. This item is measured and paid per Lump Sum.

3.19. ADA Detectable Warning Surface: This work consists of furnishing all materials and installing a detectable warning surface system on an existing or new sidewalk or curb ramp that complies with the Americans with Disabilities Act (ADA) (1990) for outdoor facilities. The detectable warning surface shall be in accordance with these Special Provisions, the Plans, the Standard Construction Details and as directed by the Engineer. The quantity of ADA detectable warning surface will be measured and paid as the actual number of square feet of truncated dome paver units installed and accepted. Price and payment will constitute full compensation for saw cutting, concrete removal, brick removal, excavation, disposal, furnishing and installing all materials, and for all labor, equipment, tools and incidentals required to complete the work.

3.20. Pavement Markings: Refer to Item 1.A.2~~78~~.

3.21. Replace Inlet Grates: Work under this item includes all labor, equipment, tools, and incidentals necessary to complete the scope of work shown on the contract drawings and described in this specification. Payment for these items will be as a unit price. This work consists of removal and legal disposal off-site of existing inlet tops and furnishing and installing replacement inlet tops of the type specified and depicted on the plans, precast concrete adjustment rings, frame, grate, joint materials, and replacement of adjacent curb as needed to create a smooth transition. The construction methods shall conform to Section 602 of the latest edition of DelDOT's Standard Specifications for Road and Bridge Construction. The number of Inlet Top Replacements to be paid for under this section shall be the actual number of inlet tops installed, completed and accepted. As provided above, these items shall be paid for at the contract unit price bid per each for which price and payment shall constitute full compensation for furnishing all materials, labor, equipment, tools, and incidentals, necessary to complete the work

3.22. Bollard: Refer to Item 1.A.2~~89~~.

3.23. Convert Catch Basin to Junction Box: Price and payment shall be full compensation

for furnishing and converting ~~an existing~~the catch basin to a junction box, including ~~removal and disposal of the existing concrete top unit and grate, furnishing and installation of a new precast concrete top unit with 24" dia. manhole opening and cast iron traffic rated manhole lid, parging, excavation, furnishing and installing all materials, forming, finishing, and protection of the concrete, compaction, installing control, expansion, and contraction joints,~~ shop drawings, and all other appurtenant labor, work, supervision, tools, equipment, materials, and all other items incidental thereto. This item is measured and paid per each of catch basins converted.

- 3.24. Reconstruct Existing Catch Basin (Up to 18"): Price and payment shall be full compensation for furnishing and reconstructing the existing catch basin up to 18" depth, including excavation, ~~removal and disposal of the existing concrete top unit and grate, sawcut and remove concrete or brick wall to specified depth, preparation for replacement top unit, furnishing and installation of a new precast concrete top unit to match existing dimensions, precast concrete riser ring, parging, furnishing and installing all materials, forming, finishing, and protection of the concrete, compaction, installing control, expansion, and contraction joints,~~ shop drawings, and all other appurtenant labor, work, supervision, tools, equipment, materials, and all other items incidental thereto. This item is measured and paid per each of catch basins reconstructed.

29. AVAILABLE BACKGROUND INFORMATION

Maps, photographs, and other documents provided herein form a part of this Bid Specification to the extent referenced and provide detailed information about the Project Location, and existing conditions of the site(s). The documentation is provided for informational purposes only and for the sole use of the Contractor. The City makes no claims as to the correctness or accuracy of the data provided therein. The Contractor shall review and determine for themselves the correctness and accuracy of the information before incorporating and relying on the prior work as part of their work product to the City.

CITY OF NEWARK
Delaware

CONTRACT NO. 23-07

CITY HALL PARKING LOT RECONSTRUCTION

PROPOSAL

To: The Mayor and City Council
Newark, Delaware

From: _____

The undersigned as a lawfully authorized agent for the below named bidder has carefully examined the Bid Documents to be known as Contract No. 23-05 and binds himself on award to him by the Mayor and City Council of Newark, Delaware to execute in accordance with such award, a contract of which this Proposal and said General Provisions and Specifications and any Addenda shall be a part, and to furnish the goods as specified F.O.B. Newark, Delaware in a manner that is in complete accordance with said General Provisions and Specifications at the following named unit price on or before the delivery period stated below:

BID ITEM	DESCRIPTION	UNITS	QUANTITY	UNIT PRICE	TOTAL
1	Base Bid				
1.A	Newark Police Department Lot				
1.A.1	Mobilization/Demobilization	LS	1		
1.A.2	Demolition of Landscape & Islands	SY	100		
1.A.3	Demolition of Concrete Curb	LF	335		
1.A.4	Pavement Milling	SY	3010		
1.A.5	Remove Existing Tree	EA	3		
1.A.6	6" Graded Aggregate Base Course	CY	18		
1.A.7	Superpave Type C, 115 Gyrations, PG 64-22 - 2" Depth	SY	2970		
1.A.8	Superpave BCBC, 115 Gyrations, PG 64-22 - 4" Depth	SY	485		
1.A.9	Bituminous Pavement Leveling Course, Type C	TN	20		
1.A.10	Superpave BCBC Repair, 115 Gyrations, PG 64-22	SY	250		
1.A.11	Concrete Curb	LF	325		
1.A.12	Depressed Curb	LF	25		
1.A.13	Concrete Sidewalk	SY	15		
1.A.14	Concrete Retaining Wall 8" to 2'-0" Height	LF	20		
1.A.15	Concrete Retaining Wall 2'-0" to 4'-0" Height	LF	176		
1.A.16	Install New Geogrid Stabilization	SY	111		

1.A.17	Concrete Parking Bumper	EA	7		
1.A.18	8' Security Aberdeen Fence, Gates, and Gate Housing	LF	750		
1.A.19	Two 22' Wide Sliding Gates	LS	1		
1.A.20	Two 3' Wide Swing Gates	LS	1		
1.A.21	12' Wide Double Swing Gate	LS	1		
1.A.22	Gate Automation	LS	1		
1.A.23	Stormwater Yard Inlet	EA	1		
1.A.24	Core Drill Into Existing Inlet 6" PVC Connection Into Existing Inlet	EA	1		
1.A.25	6" PVC Storm Sewer Pipe	LF	162 50		
1.A.26	Remove and Replace Fire Hydrant	EA	1		
1.A.27	Epoxy Pavement Striping Markings	LS	1		
1.A.28	Bollard	EA	4		
1.A.29	Miscellaneous Excavation and Backfill	CY	10		
	Subtotal				
1.B	Electrical				
1.B.1	Demolition of Light Poles and Fixtures	EA	17		
1.B.2	Demolition of Light Pole Bases	EA	17		
1.B.3	Light Poles, Fixtures, 11'-6" High	EA	4		
1.B.4	Light Poles, Fixtures, 22'-6" to 24'-6" High	EA	12		
1.B.5	Pole Base A	EA	1		
1.B.6	Pole Base B	EA	5		
1.B.7	Pole Base C	EA	10		
1.B.8	HDPE Pole Base Covers	EA	1		
1.B.9	Composite and Concrete Pads For Future Electrical Equipment	LS	1		
1.B.10	Remove Electrical Pedestal	EA	1		
1.B.11	Relocate Electrical Pedestal	EA	1		
1.B.12	Electrical Conduit	LF	1560		
1.B.13	Electrical Wiring	LF	270		
1.B.14	Electrical Work	LS	1		
	Subtotal				
1.C	Admin EV Spaces				
1.C.1	Demolition of Concrete Curb	LF	61		
1.C.2	Pavement Milling	SY	240		
1.C.3	6" Graded Aggregate Base Course	CY	7		
1.C.4	Superpave Type C, 115 Gyration, PG 64-22 - 2" Depth	SY	240		
1.C.5	Superpave BCBC, 115 Gyration, PG 64-22 - 4" Depth	SY	42		
1.C.6	New Concrete Curb	LF	65		
1.C.7	Pavement Markings	LS	1		
1.C.8	Signs	EA	2		

	Subtotal				
	Base Bid Total				
2	Add Item – Admin Lot Repaving				
2.1	Pavement Milling	SY	6230		
2.2	Superpave Type C, 115 Gyrations, PG 64-22 - 2" Depth	SY	6230		
2.3	Bituminous Pavement Leveling Course, Type C	TN	25		
2.4	Superpave BCBC Repair, 115 Gyrations, PG 64-22	SEY	1500		
2.5	Pavement Markings	LS	1		
2.6	Signs	EA	2		
2.7	Bollard	EA	2		
	Add Item Total				
	Add Alternate – Admin Lot Reconstruction				
3.1	Demolition of Landscape & Islands	SY	775		
3.2	Demolition of Concrete Curb	LF	465		
3.3	Demolition of Concrete Sidewalk	SY	48		
3.4	Demolition of Full Depth Pavement	SY	60		
3.5	Pavement Milling	SY	6230		
3.6	Remove Existing Tree	EA	5		
3.7	Miscellaneous Excavation and Backfill	CY	90		
3.8	6" Graded Aggregate Base Course	CY	10		
3.9	Superpave Type C, 115 Gyrations, PG 64-22 - 2" Depth	SY	6460		
3.10	Superpave BCBC, 115 Gyrations, PG 64-22 - 4" Depth	SY	60		
3.11	Bituminous Pavement Leveling Course, Type C	TN	50		
3.12	Superpave BCBC Repair, 115 Gyrations, PG 64-22	SEY	15010		
3.13	Deduction For Pole Base C	EA	1		
3.14	Pole Base A	EA	1		
3.15	HDPE Pole Base Covers	EA	1		
3.16	Concrete Curb	LF	1885		
3.17	Concrete Sidewalk	SY	66		
3.18	Concrete Steps	LS	1		
3.19	ADA Detectable Warning Surface	SF	200		
3.20	Pavement Marking	LS	1		
3.21	Replace Inlet Grates	EA	9		
3.22	Bollard	EA	2		
3.23	Convert Catch Basin to Junction Box	EA	1		
3.24	Reconstruct Existing- Catch Basin (up to 18" Depth)	EA	5		
	Add Alternate Total				
TOTAL BID	\$				