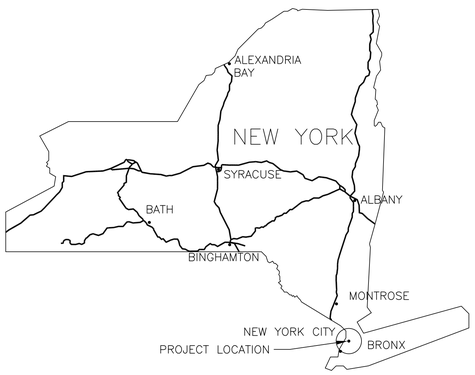
# DEPARTMENT OF VETERANS AFFAIRS

# BRONX, NEW YORK
# PARKING LOT REPLACEMENT AND EXPANSION

## PROJECT NO. 526-17-107




LOCATION MAP
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### GENERAL

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| GI-01 | COVER SHEET |
| G-100 | GENERAL NOTES AND LEGEND |

### CIVIL

| | |
|---|---|
| C-100 | EXISTING PLAN I |
| C-101 | EXISTING PLAN II |
| CD-100 | DEMOLITION SITE PLAN |
| CF-100 | FENCING PLAN |
| CG-100 | GRADING PLAN |
| CP-100 | LAYOUT PLAN |
| CP-101 | DETAILS I |
| CP-102 | DETAILS II |
| CP-103 | DETAILS III |
| CP-104 | DETAILS IV |
| CP-105 | DETAILS V |
| CP-106 | ADA DETAILS I |
| CP-107 | ADA DETAILS II |
| CP-108 | BORING AND TESTING PIT PLAN |
| CU-100 | UTILITY PLAN |
| CU-101 | STORM PROFILES |
| ES-100 | EROSION AND SEDIMENT CONTROL PLAN |
| ES-101 | EROSION CONTROL PLAN NOTES AND DETAILS |
| VJ-100 | HORIZONTAL CONTROL PLAN |

### ARCHITECTURAL

| | |
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| AG-100 | SIGN DETAILS |
| AG-101 | SIGN SCHEDULES |

### LANDSCAPE

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| LP-100 | PLANTING PLAN AND DETAILS |

### ELECTRICAL

| | |
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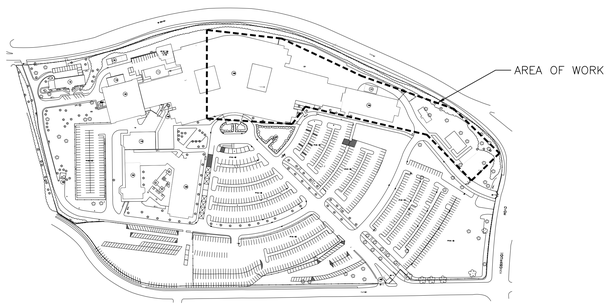
| E-001 | SYMBOLS, NOTES, AND ABBREVIATIONS |
| E-100 | ELECTRICAL SITE PLAN |
| ED-101 | ELECTRICAL PARKING LOT DEMOLITION PLAN |
| E-101 | BUILDING 100 POLICE OFFICE ELECTRICAL PLAN |
| E-102 | BUILDING 100 SUB BASEMENT ELECTRICAL PLAN |
| E-103 | BUILDING 105 BASEMENT AND GROUND FLOOR ELECTRICAL PLANS |
| E-104 | CONDUIT ROUTING ELECTRICAL SITE PLAN |
| E-105 | ELECTRICAL PARKING LOT SITE PLAN |
| EP-110 | ELECTRICAL DETAILS I |
| EP-111 | ELECTRICAL DETAILS II |
| EP-112 | ELECTRICAL DETAILS AND SCHEDULES |

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SITE MAP
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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

| Approved By: Project Director | |
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| APPROVED BY: | FACILITY MANAGEMENT DIRECTOR |
| APPROVED BY: | ASSOCIATE DIRECTOR FOR OPERATIONS |
| APPROVED BY: | CHIEF, POLICE & SECURITY |

| Drawing Title | Phase | Project Title | Project Number |
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| COVER SHEET | CONSTRUCTION DOCUMENTS | PARKING LOT REPLACEMENT AND EXPANSION | 526-17-107 |
| | | | Building Number |
| | | Location: 130 WEST KINGSBRIDGE ROAD, BRONX, NEW YORK 10468 | Drawing Number: GI-01 |
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## CONSTRUCTION NOTES

1. ALL WORK, MATERIALS AND WORKMANSHIP SHALL BE PERFORMED IN STRICT ACCORDANCE WITH, AND SHALL CONFORM WITH, ALL VA SPECIFICATIONS AND APPLICABLE VA DESIGN GUIDES AS WELL AS NFPA, NEC, NYSDOT, AISC, ACI AND AWS.
2. THE CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH ALL APPLICABLE BUILDING CODES AND REGULATIONS AND PAYING FOR AND OBTAINING ALL NECESSARY AND REQUIRED INSPECTIONS, APPROVALS AND PERMITS, NECESSARY TO PERFORM ALL WORK AND SERVICES HEREIN NOTED OR INDICATED ON THE DRAWINGS.
3. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS AT THE JOB SITE AND SHALL REPORT, ANY DISCREPANCIES TO THE GOVERNMENT PRIOR TO STARTING CONSTRUCTION. COMMENCEMENT OF THE WORK BY THE CONTRACTOR SHALL IMPLY HIS ACCEPTANCE OF ALL EXISTING CONDITIONS.
4. ALL WORK SHALL BE EXECUTED IN A CAREFUL AND ORDERLY MANNER WITH THE LEAST POSSIBLE NOISE, DUST, OR DISTURBANCE TO OCCUPANTS, ADJACENT SITES OR BUILDINGS.
5. CONTRACTOR SHALL PERFORM ALL PAVEMENT SAWCUTTING WITH WATER TO SUPPRESS DUST FROM CUTTING PAVEMENT.
6. THE CONTRACTOR SHALL PROVIDE PROTECTION FOR THE GENERAL PUBLIC AND CONSTRUCTION WORKERS IN AND AROUND THE CONSTRUCTION SITE. ADEQUATE BARRIERS SHALL BE PROVIDED TO EXERCISE CONTROL OF SAFE INGRESS AND EGRESS OF PREMISES. FIRE EXITS SHALL AT NO TIME BE BLOCKED.
7. DETAILS OF THE DRAWINGS ARE SHOWN AT SPECIFIC LOCATIONS AND ARE INTENDED TO SHOW GENERAL REQUIREMENTS THROUGHOUT. DETAILS NOTED "TYP" IMPLY ALL CONDITIONS TREATED SIMILARLY.
8. MINOR DETAILS NOT USUALLY SHOWN OR SPECIFIED BUT NECESSARY FOR PROPER CONSTRUCTION OF ANY PART OF THE WORK SHALL BE INCLUDED AS IF THEY WERE INDICATED ON THE DRAWINGS.
9. THE CONTRACTOR MUST FULLY FAMILIARIZE HIMSELF OF THE CONDITIONS RELATING TO THE CONSTRUCTION AND LABOR UNDER WHICH THE WORK WILL BE PERFORMED AND COMPARE THE DRAWINGS AND SPECIFICATIONS WITH THE WORK IN PLACE. FAILURE TO DO SO WILL NOT RELIEVE CONTRACTOR OF HIS OBLIGATION TO FURNISH ALL LABOR AND MATERIAL NECESSARY TO CARRY OUT THE PROVISIONS OF THE CONTRACT DOCUMENTS AND TO COMPLETE THE CONTEMPLATED WORK FOR THE CONSIDERATION SET FORTH IN THEIR BID.
10. THE BUILDINGS SHALL REMAIN ACCESSIBLE TO THE GOVERNMENT AT ALL TIMES.
11. THE CONSTRUCTION AREA SHALL BE THOROUGHLY CLEANED PRIOR, DURING AND AFTER THE CONSTRUCTION.
12. THE APPROVAL OF SUBMITTALS BY THE CONTRACTING OFFICER'S REPRESENTATIVE (COR) SHALL NOT BE CONSTRUED AS A COMPLETE CHECK, BUT WILL INDICATE ONLY THAT THE GENERAL METHOD OF CONSTRUCTION, MATERIALS, DETAILING AND OTHER INFORMATION ARE SATISFACTORY. APPROVAL WILL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY FOR ANY ERROR, WHICH MAY EXIST, AS THE CONTRACTOR UNDER THE CONTRACTOR QUALITY CONTROL (CQC) REQUIREMENTS OF THIS CONTRACT, IS RESPONSIBLE FOR THE DIMENSIONS AND DESIGN OF ADEQUATE CONNECTIONS, DETAILS AND SATISFACTORY CONSTRUCTION OF ALL WORK.
13. SUBMITTALS SHALL BE IN COMPLIANCE WITH CONTRACT REQUIREMENTS AND ACTUAL FIELD CONDITIONS. INCOMPLETE SUBMITTALS SHALL NOT BE REVIEWED BY THE GOVERNMENT AND RETURNED TO THE CONTRACTOR.
14. FIELD VERIFY CONSTRUCTION AND INSTALLATION REQUIREMENTS.
15. REPRODUCED CONTRACT DRAWINGS WILL NOT BE ACCEPTED AS SHOP DRAWINGS.
16. COORDINATE LOCATION OF LAYDOWN AND STORAGE AREA WITH CONTRACTING OFFICER'S REPRESENTATIVE. PROVIDE STABILIZED CONSTRUCTION ENTRANCE AS REQUIRED TO PROVIDE EROSION AND SEDIMENTATION CONTROL.
17. LAYDOWN AND STORAGE AREA SHALL BE ENCLOSED WITH A SELF-SUPPORTING SEVEN (7) FOOT HIGH CHAIN LINK FENCE FOR SECURITY AND PROTECTED FROM WIND. SITE SECURITY TO BE MAINTAINED THROUGHOUT CONSTRUCTION.
18. LAYDOWN AND STORAGE AREA SHALL BE FULLY RESTORED UPON COMPLETION OF CONSTRUCTION. THIS WORK SHALL INCLUDE REMOVAL OF ANY INSTALLED SURFACES, MATERIALS, AND EQUIPMENT. TOPSOILING, SEEDING, AND MULCHING SHALL BE PROVIDED TO RETURN THE AREA TO ITS PRECONSTRUCTION CONDITION.
19. SHOULD ANY CONFLICT ARISE BETWEEN THE CONTRACT DRAWINGS AND THE SPECIFICATIONS THE CONTRACTOR SHALL PROVIDE THE HIGHER QUALITY /QUANTITY OF WORK, THEN TO THE LEAST DEGREE NECESSARY. THE SPECIFICATIONS ALONG WITH APPLICABLE CODES SHALL OVERRULE THE CONTRACT DRAWINGS.
20. SUBMIT PRODUCT DATA ON ALL ITEMS SPECIFIED ON THE DRAWINGS.
21. PATCH ALL SURFACES AFFECTED BY NEW CONSTRUCTION TO APPEAR NEW AND TO MATCH EXISTING.
22. CONTRACTOR SHALL PROTECT AND PRESERVE ALL EXISTING ITEMS TO REMAIN AND SHALL BE RESPONSIBLE TO REPAIR AND/OR REPLACE ANY DAMAGED ITEMS DURING COURSE OF CONSTRUCTION AND RESTORE SUCH DAMAGES TO THE SATISFACTION OF CONTRACTING OFFICER TO ITS ORIGINAL CONDITION AT NO ADDITIONAL COST THE GOVERNMENT.
23. ALL EXCAVATION IN THE IMMEDIATE AREA OF EXISTING UTILITIES SHALL BE PERFORMED BY HAND AND WITH UTMOST CARE TO PROTECT THE UTILITIES.
24. THE LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES, INCLUDING, BUT NOT LIMITED TO, STEAM AND CONDENSATE LINES, WATER LINES, SEWERS, DRAINS, AND ELECTRICAL AND COMMUNICATIONS CONDUITS HAVE BEEN INDICATED BASED ON THE INFORMATION PROVIDED BY THE GOVERNMENT. IT IS POSSIBLE THAT THE ACTUAL SUBSURFACE UTILITIES AND PIPING MAY VARY FROM THE INDICATED. THEREFORE, PRIOR TO STARTING WORK IN ANY AREA, THE CONTRACTOR SHALL TAKE THE NECESSARY STEPS TO DETERMINE THE ACTUAL LOCATIONS AND ELEVATIONS OF ALL EXISTING UNDERGROUND PIPING, CONDUITS, AND STRUCTURES. THE CONTRACTOR SHALL CARRY OUT THE OPERATIONS IN SUCH A MANNER AS TO PREVENT INTERFERENCE WITH LINES WHICH ARE TO REMAIN UNDISTURBED. ANY SUCH PIPE OR CONDUIT OR STRUCTURE DISTURBED IN THE COURSE OF THIS CONTRACT SHALL BE REPAIRED AND/OR REPLACED IMMEDIATELY BY THE CONTRACTOR AS DIRECTED BY THE CONTRACTING OFFICER AT NO EXTRA COST TO THE GOVERNMENT. CONTRACTOR IS REQUIRED TO PROVIDE THEIR OWN UNDERGROUND SURVEY PRIOR TO EXCAVATION AND SHALL HAND EXCAVATE IN ALL AREAS PROXIMATE TO UNDERGROUND UTILITY SERVICES.
25. PROTECT ALL UTILITIES AND OTHER STRUCTURES DURING EXCAVATION AND BACKFILL OPERATIONS, ANY DAMAGE TO ANY EXISTING UTILITIES AND STRUCTURES CAUSED BY THE CONTRACTOR'S WORK SHALL BE IMMEDIATELY REPORTED TO THE COR AND REPAIRED TO THEIR ORIGINAL CONDITION BY QUALIFIED PERSONNEL AT THE CONTRACTORS EXPENSE. THE CONTRACTOR SHALL NOT INTERFERE WITH, OR INTERRUPT, ANY UTILITY MAIN OR SERVICE CONNECTION WITHOUT PRIOR APPROVAL FROM THE CONTRACTING OFFICER.
26. BEFORE AND DURING CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL PROVIDE A SELF-SUPPORTING SEVEN (7) FOOT HIGH CHAIN LINK SELF SUPPORTING MODULE FOR SECURITY AND PROTECTED FROM WIND AROUND CONSTRUCTION AREAS DESIGNATED BY THE COR AS REQUIRING ENCLOSURE BY FENCING. PROVIDE GATES AS REQUIRED FOR ACCESS WITH NECESSARY HARDWARE, INCLUDING HASPS AND PADLOCKS. FASTEN FENCE FABRIC TO TERMINAL POSTS WITH TENSION BANDS AND TO LINE POSTS AND TOP AND BOTTOM RAILS WITH TIE WIRES SPACED AT MAXIMUM 15 INCHES. BOTTOM OF FENCES SHALL EXTEND TO ONE INCH ABOVE GRADE. REMOVE THE FENCE WHEN DIRECTED BY THE COTR.
27. CONTRACTOR TO SUBMIT DESIGN CALCULATIONS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER CURRENTLY LICENSES IN THE STATE OF NEW YORK FOR ALL ELEMENTS REQUIRING STRUCTURAL DESIGN.
28. THE CONTRACTOR SHALL INCLUDE IN ITS BID 3,500 CY OF ROCK EXCAVATION. THE CONTRACTOR SHALL MEASURE ALL ACTUAL ROCK EXCAVATION DURING CONSTRUCTION. THE CONTRACT PRICE AND TIME WILL BE ADJUSTED FOR OVERRUNS OR UNDERRUNS ABOVE OR BELOW THE 3,500 CY QUANTITY IN ACCORDANCE WITH ARTICLES, DIFFERING SITE CONDITIONS, CHANGES AND CHANGES-SUPPLEMENT OF THE GENERAL CONDITIONS AS APPLICABLE. SEE SPECIFICATION SECTION 31 20 11 PARAGRAPHS 1.4 TO 1.6.
29. CONTRACTOR SHALL KEEP DAILY PHOTOGRAPHS OF WORK TO BE PROVIDED TO THE VA.
30. CONTRACTOR SHALL KEEP DAILY RED-LINE AS-BUILT DRAWINGS.
31. CONTRACTOR SHALL TAKE PRE-CONSTRUCTION PHOTOGRAPHS AND PROVIDE THEM TO THE VA PRIOR TO THE START OF WORK.
32. CONTRACTOR SHALL PROVIDE ALL TEMPORARY SIGNAGE FOR ALTERNATE PARKING, VEHICULAR ACCESS, PEDESTRIAN WALKWAY, AND DETOUR DURING CONSTRUCTION TO COORDINATE WITH THE PHASING OF WORK. TRAFFIC AND PEDESTRIAN CONTROL PLANS INCLUDING SIGNAGE PLANS TO BE APPROVED BY CONTRACTING OFFICER PRIOR TO USE.
33. CONTRACTOR SHALL PROVIDE ALL REQUIRED PARKING, PEDESTRIAN AND TRAFFIC MANAGEMENT DURING CONSTRUCTION. TRAFFIC CONTROL PLANS INCLUDING SIGNAGE PLANS TO BE APPROVED BY CONTRACTING OFFICER PRIOR TO USE.
34. CONTRACTOR SHALL PHASE ALL WORK
35. WORK MUST BE CONSTRUCTED AND COMPLETED TO MINIMIZE DISRUPTION OF THE MEDICAL CENTER. WORK PLANNED FOR NON-REGULAR HOURS AND WEEKENDS MUST HAVE CONSTRUCTION SCHEDULE AND SEQUENCE APPROVED BY COR PRIOR TO USE.
36. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND DISPOSAL OF ALL EXCESS EXCAVATED MATERIAL TO AN OFF-SITE LOCATION AT NO ADDITIONAL COST OF THE OWNER.
37. ALL TRENCH LINES SHALL BE SAW CUT OR MILLED.
38. ALL TRENCHES SHALL BE BACKFILLED WITHOUT DELAY. OPEN TRENCHES SHALL BE KEPT TO A MINIMUM. OPEN TRENCHES SHALL BE STEEL PLATED. STEEL PLATES SHALL BE PINNED AND ALSO INSTALLED WITH ASPHALT FEATHERED ALONG EDGES. UPON BACKFILLING THE CONTRACTOR SHALL BROOM SWEEP STREETS,AND OTHER PAVED AREAS, USE APPROPRIATE METHODS CONTROL DUST AND HOSE DOWN THE PAVEMENT TO KEEP SURFACE CLEAN. TRENCHES WITHIN THE ROADWAY AND PARKING LOTS SHALL BE BACKFILLED BY THE END OF EACH WORK DAY, AND WILL HAVE TEMPORARY PAVEMENT INSTALLED.
39. PRIOR TO CONNECTION TO OR RELOCATION OF ANY EXISTING VAMC FACILITIES, THE CONTRACTOR SHALL NOTIFY THE VAMC. ALL CONNECTIONS TO EXISTING FACILITIES SHALL BE DONE AT THE CONVENIENCE OF THE VAMC. WORK MUST BE PLANNED FOR NON-REGULAR HOURS AND WEEKENDS. OFF HOUR WORK SHALL ONLY OCCUR IF REQUIRED OR REQUESTED BY THE COR.
40. THE CONTRACTOR SHALL PROTECT ALL STRUCTURES, ROADS, PIPELINES, TREES, SHRUBBERY, GRASS AREAS, ETC. DURING THE PROGRESS OF THE WORK AND SHALL REMOVE DAILY FROM THE SITE ALL DEBRIS AND UNUSED MATERIALS. UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL RESTORE THE SITES AS NEATLY AS POSSIBLE TO THEIR ORIGINAL CONDITION.
41. ALL SIDEWALK AREAS SHALL BE PASSABLE AND BROOM SWEPT AT THE END OF EACH WORK DAY.
42. ALL REQUIRED DEWATERING SHALL BE INCLUDED IN THE LUMP SUM BID.
43. RESTORATION, INCLUDING THE REMOVAL OF EXCESS EXCAVATED MATERIAL AND PLACEMENT OF TEMPORARY PAVEMENT, SHALL BE PERFORMED AND COMPLETED ON A DAILY BASIS. ALL ROADS SHALL BE PASSABLE TO VEHICULAR TRAFFIC AT THE END OF EACH WORK DAY.
44. CONTRACTORS ARE TO COORDINATE ALL WORK WITH THE COR.
45. ALL DIMENSIONS ON DRAWINGS ARE APPROXIMATE; DRAWINGS ARE NOT TO BE SCALED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL FIELD CONDITIONS AND PHYSICAL DIMENSIONS THAT INFLUENCE THE CONSTRUCTION AREA.
46. UNLES OTHERWISE REQUIRED, IT IS RECOMMENDED THAT CONTRACTORS VISIT THE PROPOSED CONSTRUCTION SITE PRIOR TO SUBMITTING THEIR BIDS AND THEY ARE ENCOURAGED TO DO SO.
47. CONTRACTOR IS RESPONSIBLE FOR THE SAFEGUARDING OF THEIR TOOLS AND EQUIPMENT. ALL TOOLS AND EQUIPMENT ARE NOT BE LEFT UNATTENDED AND ARE TO BE SECURED AT ALL TIMES WHEN THE CONTRACTOR IS NOT PRESENT OR THE CONSTRUCTION SITE IS NOT SUPERVISED BY THE CONTRACTOR.
48. ALL VA PROPERTY IS TO BE SAFEGUARDED FROM DAMAGE. ANY DAMAGED VA PROPERTY IS TO BE RESTORED TO ORIGINAL CONDITION PRIOR TO DAMAGE OR REPLACED COMPLETELY. THIS INCLUDES INSTALLATION, LABOR AND PROCUREMENT EXPENSES.
49. ALL DEMOLISHED MATERIAL BECOMES THE PROPERTY AND THE RESPONSIBILITY OF THE CONTRACTOR WITH THE EXCEPTION OF SPECIFIED ITEMS DESIGNATED EITHER IN THE PLANS, SPECIFICATIONS, OR VERBALLY REQUESTED BY THE COR TO BE RETAINED BY THE VA.
50. OFFSITE DISPOSAL OF THE DEMOLISHED ITEMS IS THE RESPONSIBILITY OF THE CONTRACTOR.
51. REPLACE ANY DAMAGED LAWN AND ALL DISTURBED AREAS OUTSIDE OF PAVEMENT AND CONCRETE AREAS WITH TOP SOIL AND HYDROSEED. MAINTAIN UNTIL FULLY ESTABLISHED AND ACCEPTED BY COR.
52. ALL DRAINAGE INLET STRUCTURES SHALL BE CAST-IN-PLACE OR PRE-CAST CONCRETE. NO THERMOPLASTIC, POLY, CAST IN PLACE CONCRETE, OR OTHER MATERIAL SUBSTITUTION WILL BE PERMITTED.
53. ALL PROPOSED PERMANENT PAVEMENT MARKINGS SHALL BE EPOXY BASE.
54. THE CONTRACTOR SHALL MAINTAIN A DAILY AND CONTINUOUS DUST PREVENTION MEASURES WITH REGARDED TO PREVENTION OF DUST ACCUMULATION AND OBSERVATION ON PARKED VEHICLES. WHERE A FAILURE TO PREVENT DUST ACCUMULATION OCCURS THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CLEANING OF DUST
55. CONTRACTOR TO COORDINATE ALL LOCKS WITH VA LOCKSMITH AND TO PROVIDE A SINGLE MANUFACTURER SYSTEM (EG STANLEY/BEST) COMPATIBLE WITH EXISTING VA LOCK SYSTEMS.
56. DURING CONSTRUCTION ONE LANE OF TRAVEL ON ALL DRIVEWAYS SHALL REMAIN OPEN AT ALL TIMES.
57. IF UNDERPINNING OR ANY OTHER TYPE OF SIMILAR SUPPORT OF AN EXISTING STRUCTURE IS REQUIRED, THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE THE UNDERPINNING OR SUPPORT AT NO ADDITIONAL COST TO THE VA.

## LEGEND

- EXISTING CONTOUR MINOR
- EXISTING CONTOUR MAJOR
- EXISTING CURB
- EXISTING FIRE HYDRANT
- EXISTING WATER LINE/VALVE
- EXISTING WATER LINE/VALVE
- EXISTING SANITARY LINE/ SANITARY MANHOLE
- EXISTING STORM LINE/STORM INLET
- EXISTING UNDERGROUND ELECTRIC
- EXISTING UNDERGROUND TELECOM
- EXISTING EDGE OF PAVE
- EXISTING EDGE OF DIRT ROAD
- EXISTING LIGHT
- EXISTING TREE
- EXISTING STEAM UTILITY TUNNEL
- LIMIT OF DRIP IRRIGATION PIPING
- PROPOSED CONTOUR MAJOR
- PROPOSED CONTOUR MINOR
- PROPOSED CURB
- PROPOSED CURB AND GUTTER
- PROPOSED MOUNTABLE CURB AND GUTTER
- PROPOSED DETECTIBLE WARNING SURFACE
- PROPOSED CAST IRON DETECTIBLE WARNING SURFACE
- PROPOSED LIGHT
- PROPOSED STORM LINE
- PROPOSED WATER LINE/VALVE
- PROPOSED FIRE HYDRANT
- PROPOSED TRENCH DRAIN
- PROPOSED STORM DRAIN DROP INLET
- PROPOSED STORM DRAIN AREA DRAIN
- PROPOSED PAVEMENT MARKING
- PROPOSED SIGN
- PROPOSED CONCRETE WALK AND EXPANSION JOINTS
- PROPOSED FENCE
- ×TC=95.71 – PROPOSED TOP OF CURB ELEVATION
- ×FL=95.21 – PROPOSED FLOW LINE ELEVATION
- ×95.21 – PROPOSED SPOT ELEVATION
- −1.49% – FINISH GRADE SLOPE AND DIRECTION

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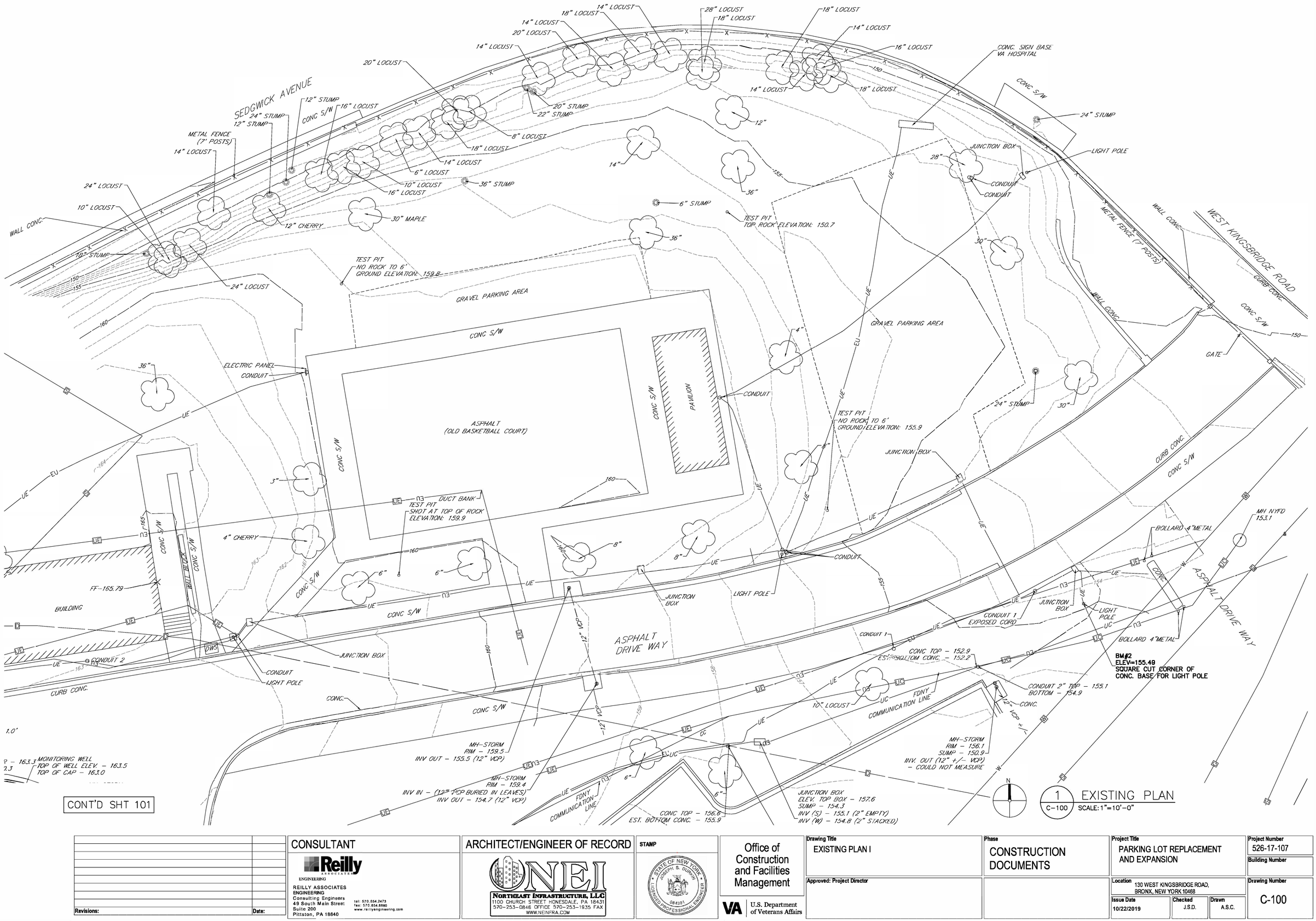


1 EXISTING PLAN
C-100 SCALE: 1"=10'-0"

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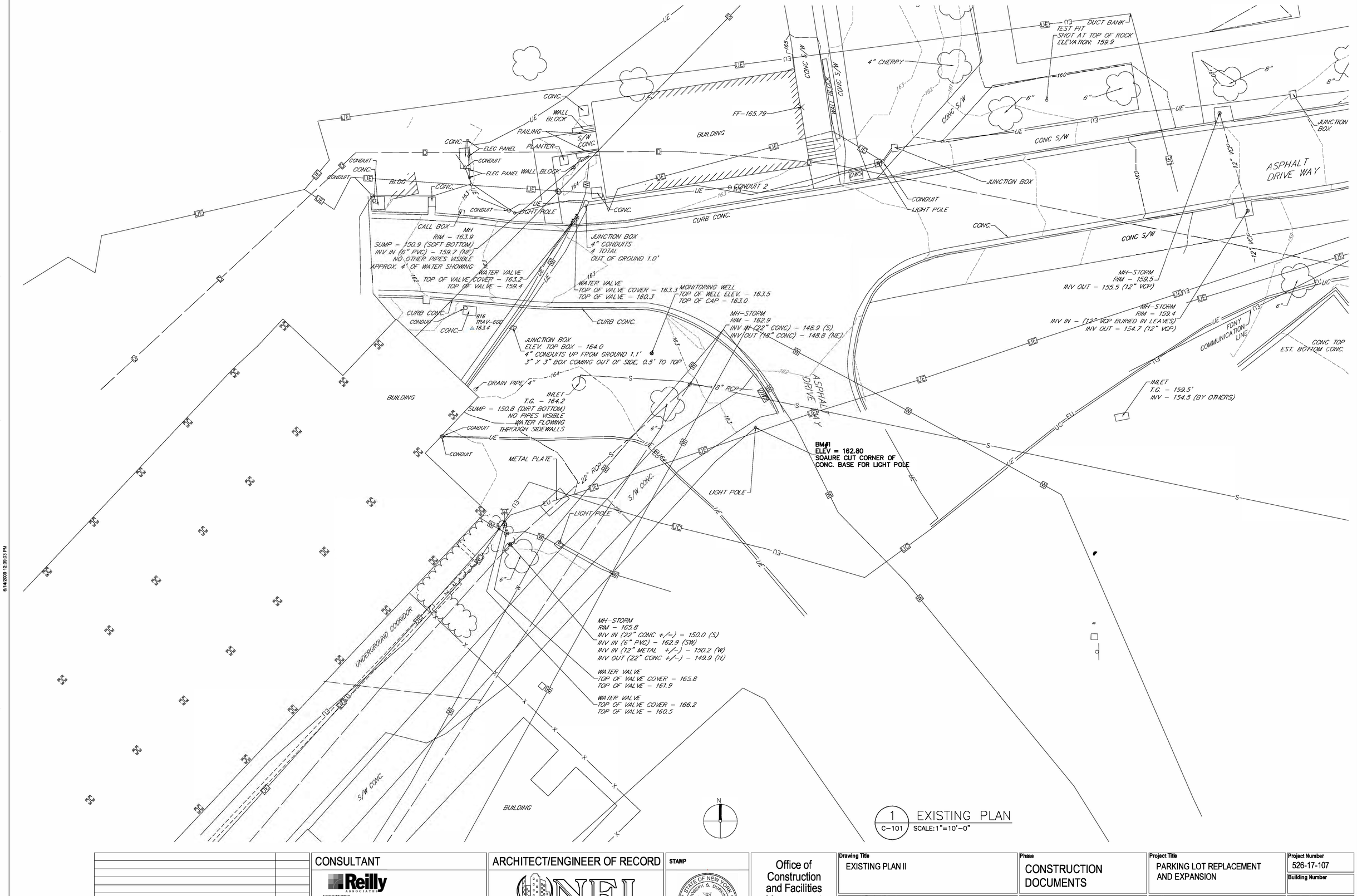


1 C-101 EXISTING PLAN
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| EXISTING PLAN II | CONSTRUCTION DOCUMENTS | PARKING LOT REPLACEMENT AND EXPANSION | 526-17-107 |
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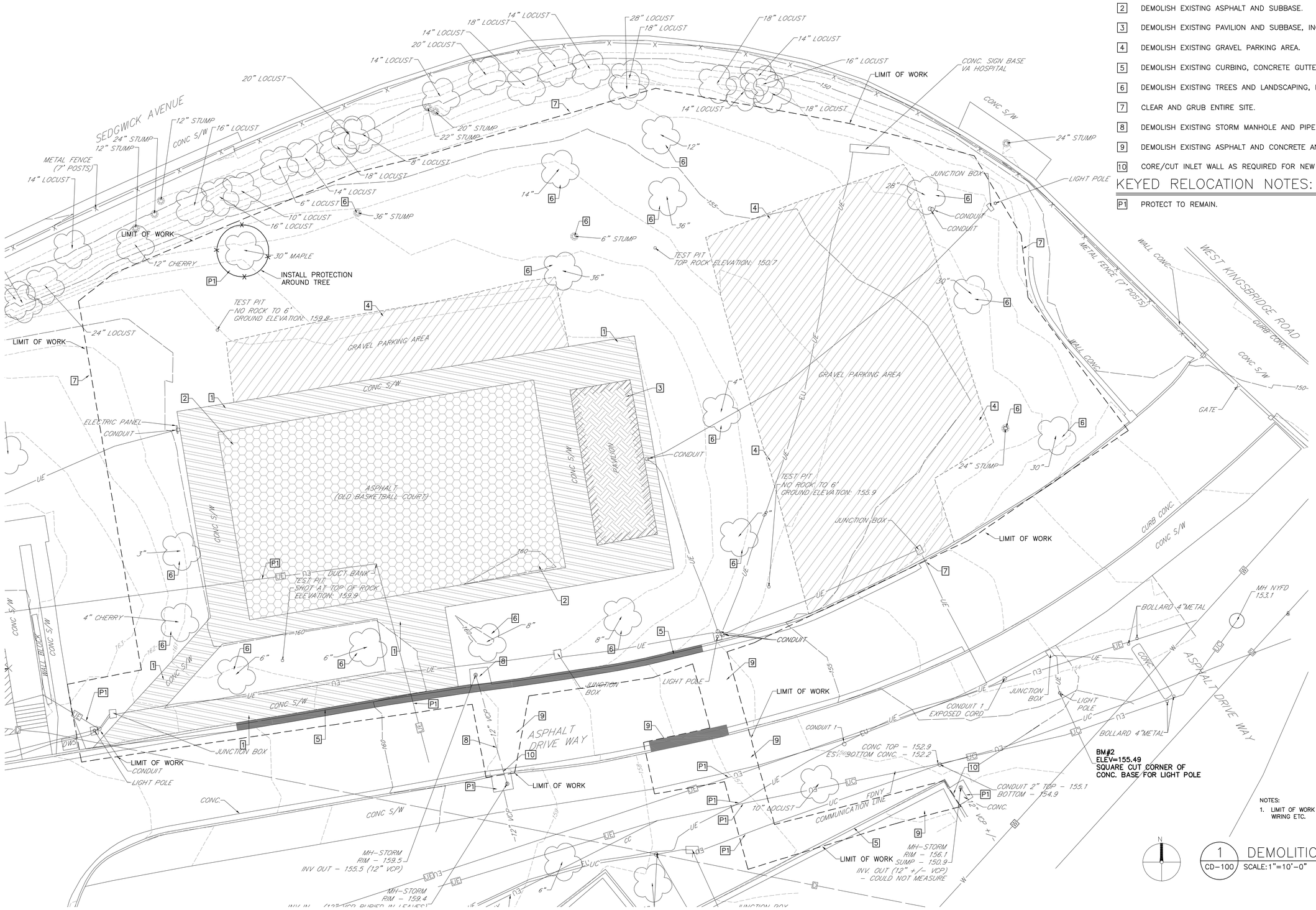
## KEYED DEMOLITION NOTES:

1. DEMOLISH EXISTING CONCRETE SIDEWALK AND SUBBASE.
2. DEMOLISH EXISTING ASPHALT AND SUBBASE.
3. DEMOLISH EXISTING PAVILION AND SUBBASE, INCLUDING FOOTERS.
4. DEMOLISH EXISTING GRAVEL PARKING AREA.
5. DEMOLISH EXISTING CURBING, CONCRETE GUTTER AND ASPHALT AND REPLACE
6. DEMOLISH EXISTING TREES AND LANDSCAPING, INCLUDING STUMP AND ROOTS.
7. CLEAR AND GRUB ENTIRE SITE.
8. DEMOLISH EXISTING STORM MANHOLE AND PIPE.
9. DEMOLISH EXISTING ASPHALT AND CONCRETE AND REPLACE ACCORDINGLY.
10. CORE/CUT INLET WALL AS REQUIRED FOR NEW PIPE.

## KEYED RELOCATION NOTES:

P1 PROTECT TO REMAIN.




NOTES:

1. LIMIT OF WORK DOES NOT INCLUDE ELECTRICAL WORK SUCH AS CONDUIT, WIRING ETC.

1 / CD-100 DEMOLITION SITE PLAN

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

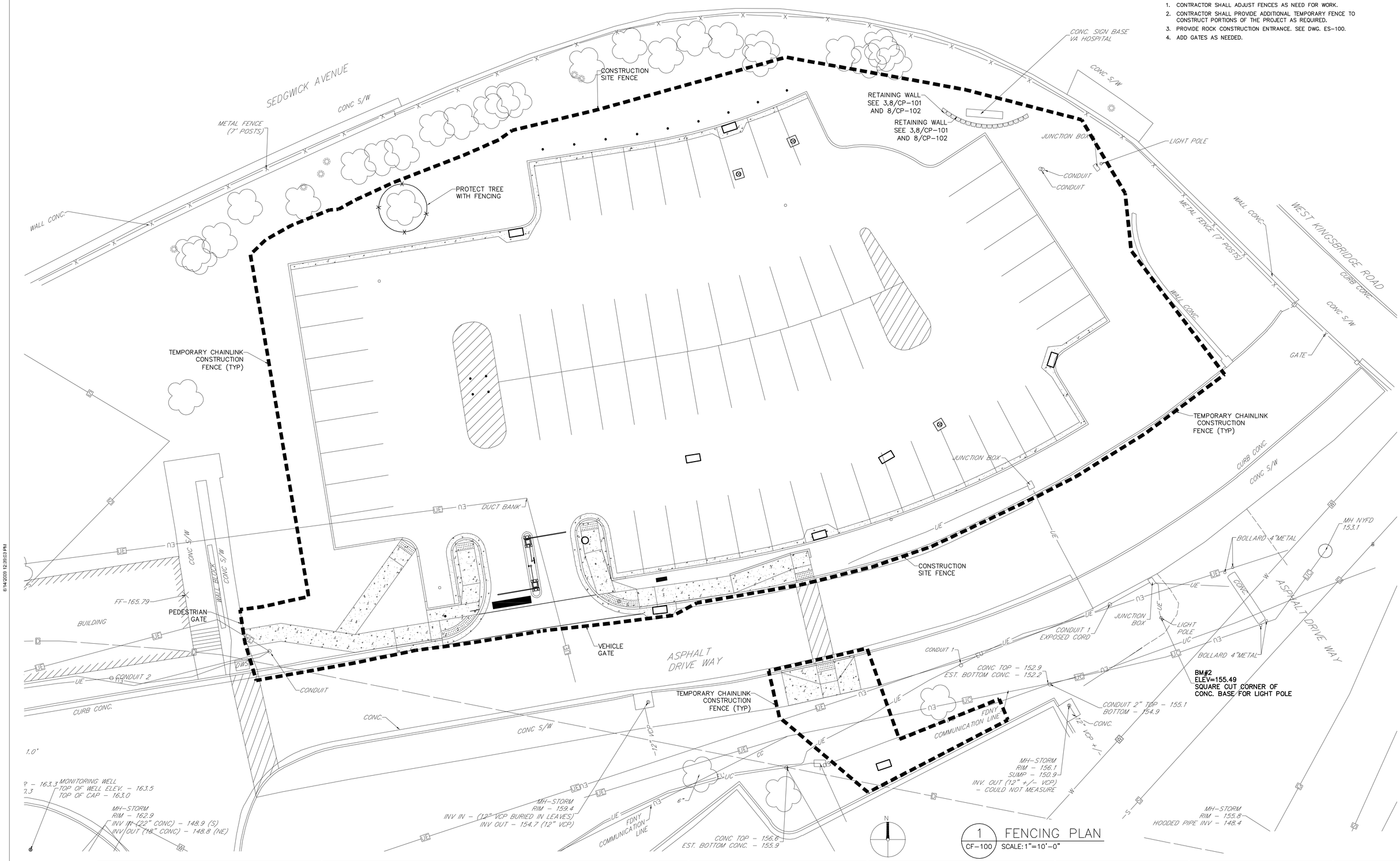
| Drawing Title | Phase | Project Title | Project Number |
|---|---|---|---|
| DEMOLITION SITE PLAN | CONSTRUCTION DOCUMENTS | PARKING LOT REPLACEMENT AND EXPANSION | 526-17-107 |
| Approved: Project Director | | Location: 130 WEST KINGSBRIDGE ROAD, BRONX, NEW YORK 10468 | Building Number |
| | | Issue Date: 10/22/2019 · Checked: J.S.D. · Drawn: A.S.C. | Drawing Number: CD-100 |

VA FORM 08-6231

File Path

6/14/2019 12:39:03 PM

NOTES:
1. CONTRACTOR SHALL ADJUST FENCES AS NEED FOR WORK.
2. CONTRACTOR SHALL PROVIDE ADDITIONAL TEMPORARY FENCE TO CONSTRUCT PORTIONS OF THE PROJECT AS REQUIRED.
3. PROVIDE ROCK CONSTRUCTION ENTRANCE. SEE DWG. ES-100.
4. ADD GATES AS NEEDED.




1 FENCING PLAN
CF-100 SCALE: 1"=10'-0"

| Revisions: | Date: |
|---|---|
| | |

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|---|---|---|---|
| Drawing Title: FENCING PLAN | Phase: CONSTRUCTION DOCUMENTS | Project Title: PARKING LOT REPLACEMENT AND EXPANSION | Project Number: 526-17-107 |
| Approved: Project Director | | | Building Number: |
| | | Location: 130 WEST KINGSBRIDGE ROAD, BRONX, NEW YORK 10468 | Drawing Number: CF-100 |
| | | Issue Date: 10/22/2019 · Checked: J.S.D. · Drawn: A.S.C. | |

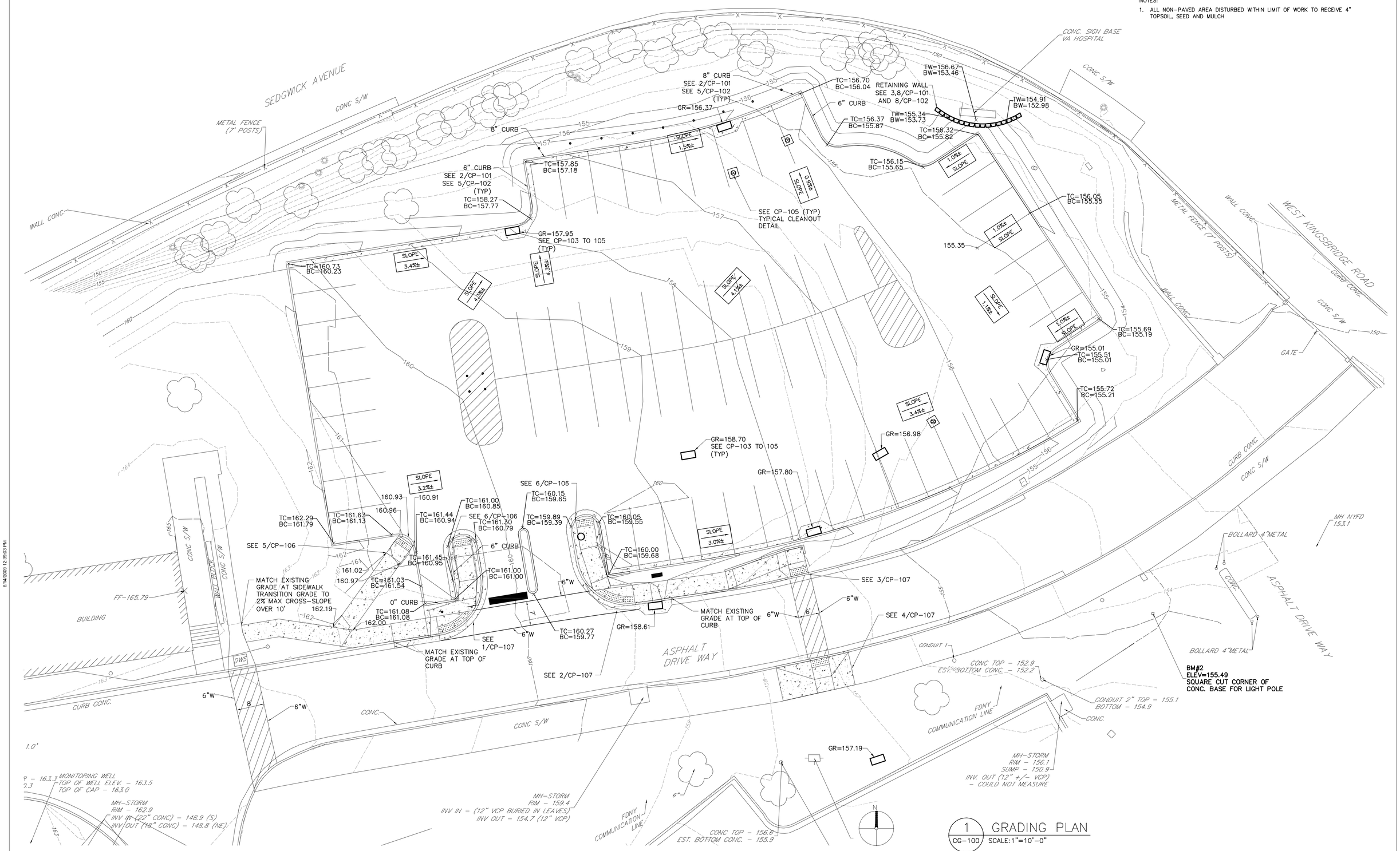
VA FORM 08-6231

6/14/2019 12:29:23 PM

File Path:

NOTES:

1. ALL NON-PAVED AREA DISTURBED WITHIN LIMIT OF WORK TO RECEIVE 4" TOPSOIL, SEED AND MULCH




1 GRADING PLAN
CG-100 SCALE: 1"=10'-0"

| Revisions: | Date: |
|---|---|
| | |

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|---|---|---|---|
| Drawing Title: GRADING PLAN | Phase: CONSTRUCTION DOCUMENTS | Project Title: PARKING LOT REPLACEMENT AND EXPANSION | Project Number: 526-17-107 |
| Approved: Project Director | | | Building Number: |
| | | Location: 130 WEST KINGSBRIDGE ROAD, BRONX, NEW YORK 10468 | Drawing Number: CG-100 |
| | | Issue Date: 10/22/2019 · Checked: J.S.D. · Drawn: A.S.C. | |

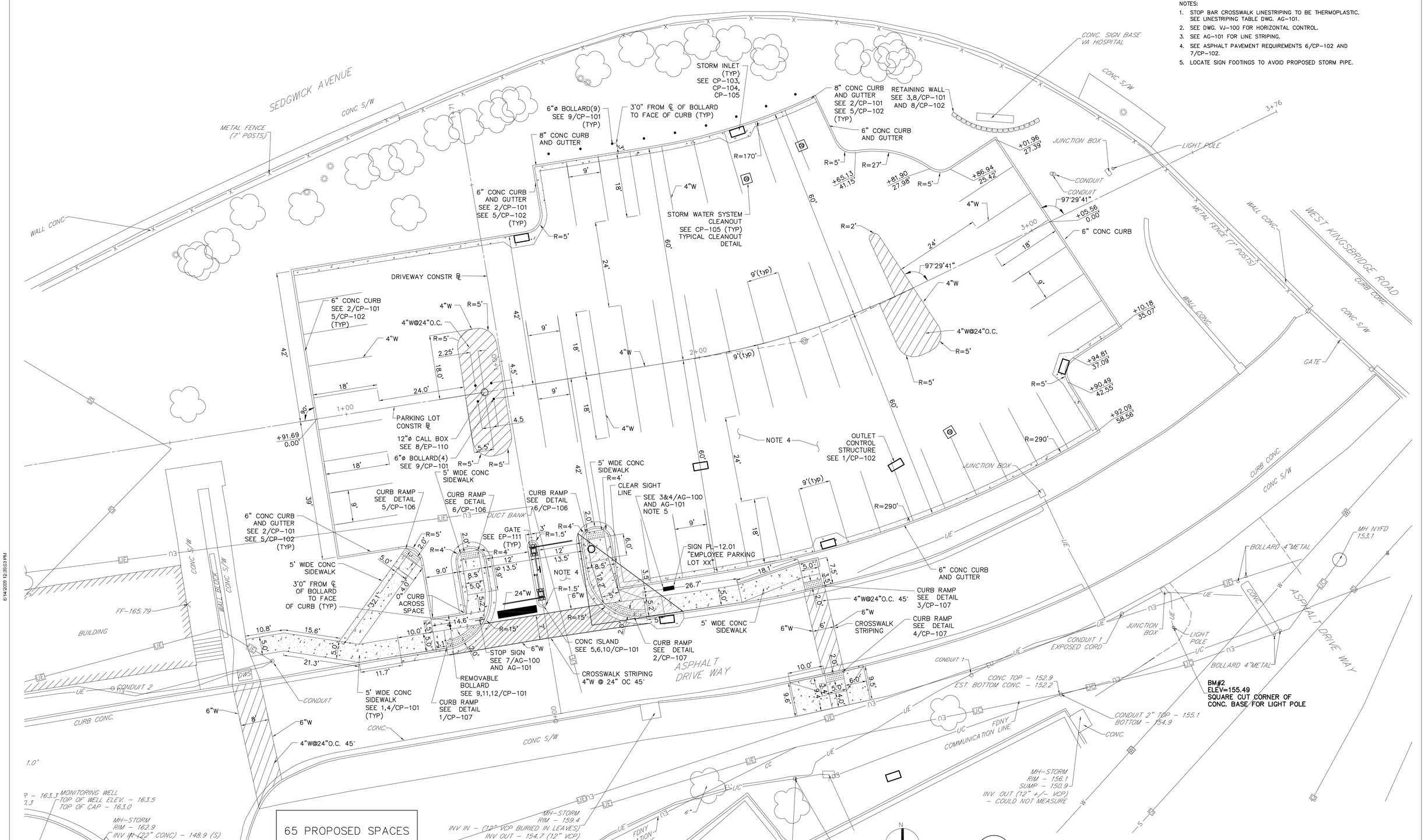
VA FORM 08-6231

File Path:

6/14/2019 12:29:23 PM

NOTES:

1. STOP BAR CROSSWALK LINESTRIPING TO BE THERMOPLASTIC. SEE LINESTRIPING TABLE DWG. AG-101.
2. SEE DWG. VJ-100 FOR HORIZONTAL CONTROL.
3. SEE AG-101 FOR LINE STRIPING.
4. SEE ASPHALT PAVEMENT REQUIREMENTS 6/CP-102 AND 7/CP-102.
5. LOCATE SIGN FOOTINGS TO AVOID PROPOSED STORM PIPE.




1 CP-100 LAYOUT PLAN
SCALE: 1"=10'-0"

| Revisions: | Date: |
|---|---|
| | |

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|---|---|---|---|
| Drawing Title: LAYOUT PLAN | Phase: CONSTRUCTION DOCUMENTS | Project Title: PARKING LOT REPLACEMENT AND EXPANSION | Project Number: 526-17-107 |
| Approved: Project Director | | Location: 130 WEST KINGSBRIDGE ROAD, BRONX, NEW YORK 10468 | Building Number: |
| | | Issue Date: 10/22/2019 · Checked: J.S.D. · Drawn: A.S.C. | Drawing Number: CP-100 |

VA FORM 08-6231

File Path

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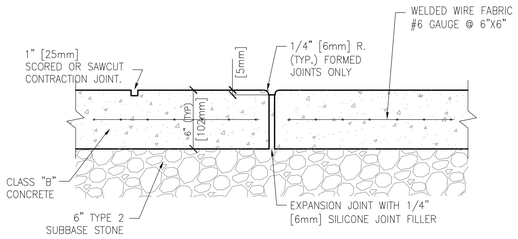
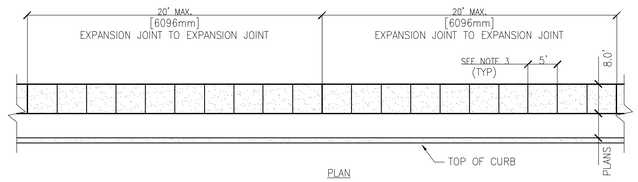
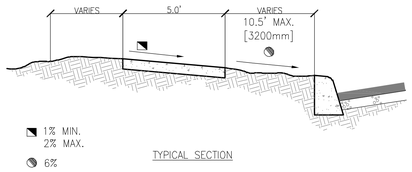



EXPANSION AND CONTRACTION JOINT DETAIL



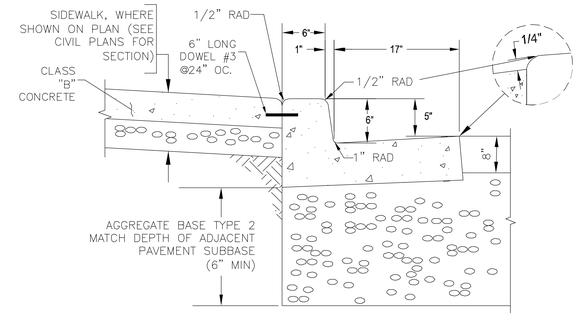

PLAN

NOTES:
1. EXPANSION JOINTS SHALL BE LOCATED WHERE SIDEWALK ABUTS CONCRETE DRIVEWAYS, CURB OR OTHER ADJACENT STRUCTURES.
2. ONE-HALF INCH SILICONE JOINT FILLER SHALL BE INSTALLED AT EXPANSION JOINT LOCATIONS AND SHALL EXTEND THE FULL DEPTH OF THE CONCRETE.
3. 1" DEEP CONTRACTION JOINTS SHALL BE PLACED AT INTERVALS OF 5 FEET OR AT A SPACING THAT MATCHES THE ADJACENT CURB IF LESS.
4. FORMED CONTRACTION JOINTS SHALL BE FINISHED WITH A TOOL HAVING A 1/4" [6mm] RADIUS.
5. CONCRETE SHALL BE FINISHED BY MEANS OF A FLOAT, STEEL TROWELLED AND BROOMED WITH A FINE BRUSH IN A TRANSVERSE DIRECTION.
6. PROVIDE 2" EDGED TROWEL FINISH AROUND EACH FLAG.

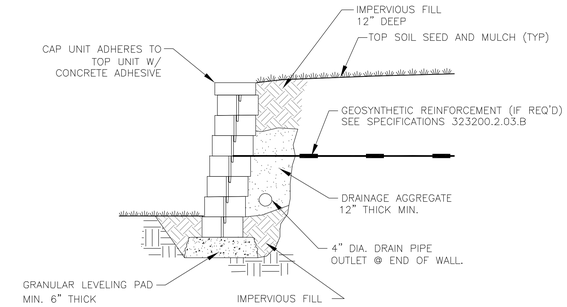



TYPICAL SECTION

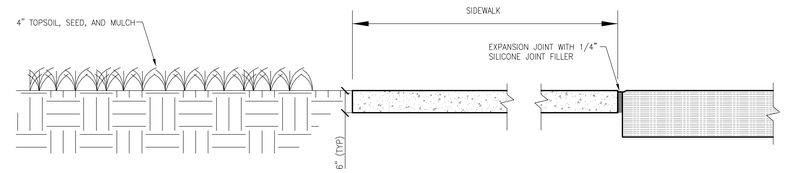
1 CP-101 CONCRETE SIDEWALK
SCALE:NOT TO SCALE



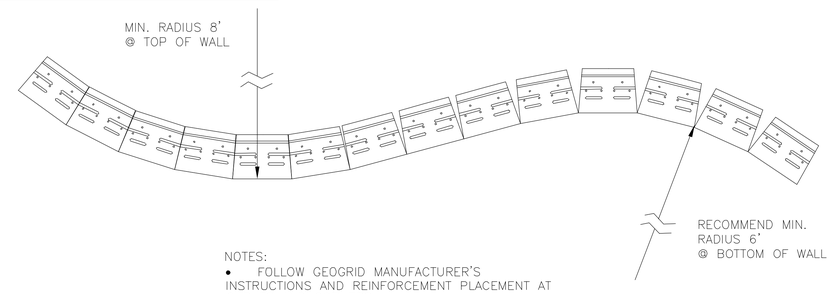

2 CP-101 CAST-IN-PLACE CONCRETE VERTICAL CURB & GUTTER
SCALE:NOT TO SCALE




3 CP-101 RETAINING WALL DETAIL
SCALE:1/2" = 1'-0"

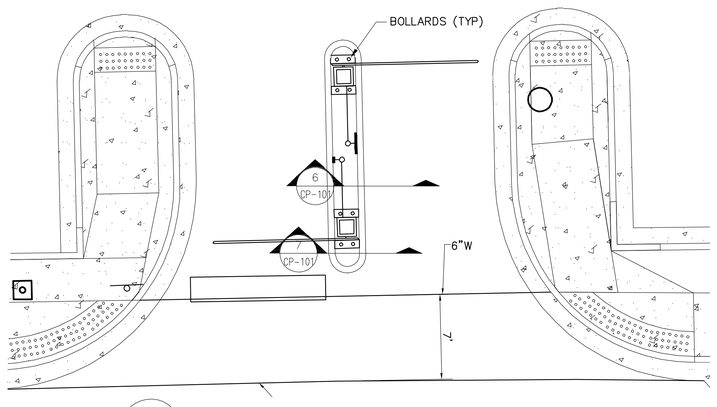



4 CP-101 CONCRETE SIDEWALK BORDER DETAIL
SCALE:NOT TO SCALE

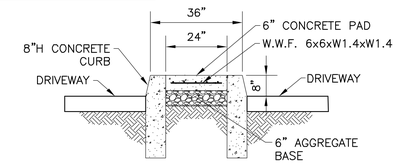



NOTES:
- FOLLOW GEOGRID MANUFACTURER'S INSTRUCTIONS AND REINFORCEMENT PLACEMENT AT CURVES AND CORNERS

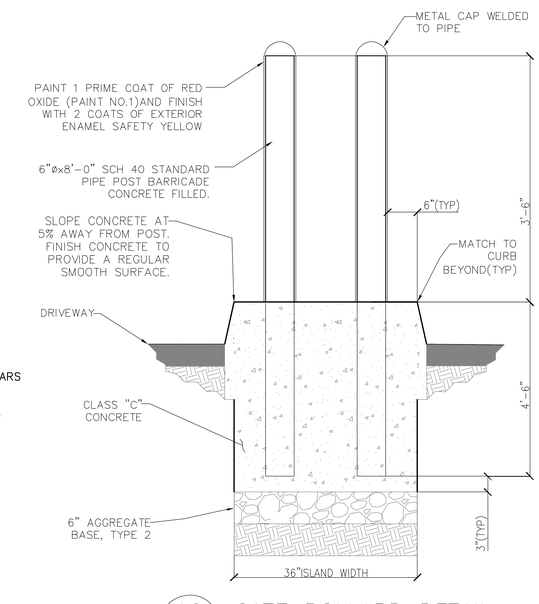
8 CP-101 CURVED RETAINING WALL DETAIL
SCALE:NOT TO SCALE



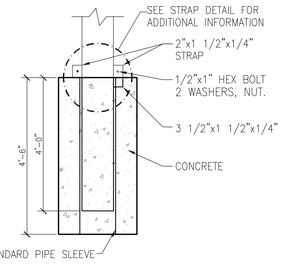

5 CP-101 GATE EQUIPMENT FOUNDATION PLAN
SCALE:1" = 5'-0"




6 CP-101 CONCRETE ISLAND DETAIL
SCALE:1/2" = 1'-0"

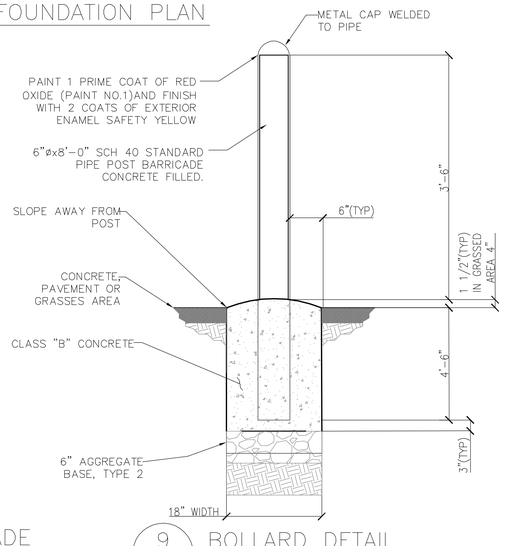



10 CP-101 GATE BOLLARD DETAIL
SCALE:NOT TO SCALE

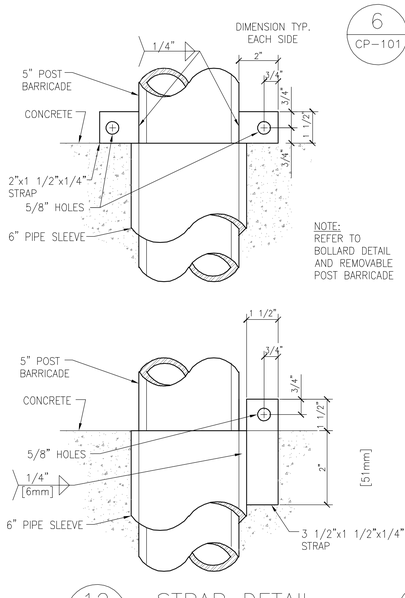



NOTES:
1. REMOVABLE POST BARRICADE SHALL NOT BE CONCRETE FILLED.
2. HAND TIGHTEN BOLT & NUT USING WASHERS EACH SIDE OF STRAPS. CUT BOLT APPROX. 1/8" [6mm] FROM FACE OF NUT & PEEN EXPOSED END OF BOLT.
3. REFER TO "BOLLARD DETAIL" FOR POST DETAILS.

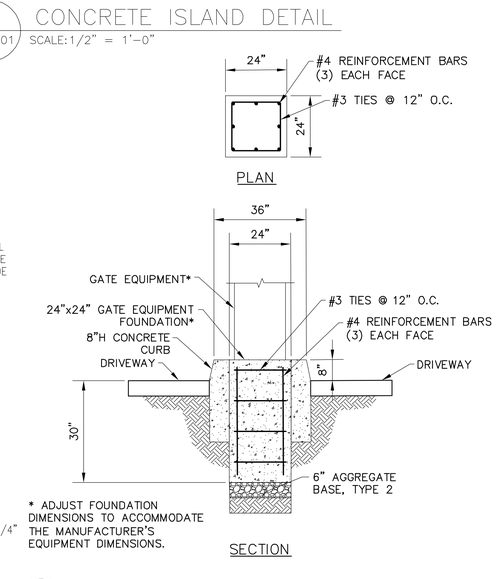
11 CP-101 REMOVABLE POST BARRICADE
SCALE:NOT TO SCALE




9 CP-101 BOLLARD DETAIL
SCALE:NOT TO SCALE




12 CP-101 STRAP DETAIL
SCALE:NOT TO SCALE




* ADJUST FOUNDATION DIMENSIONS TO ACCOMMODATE THE MANUFACTURER'S EQUIPMENT DIMENSIONS.

7 CP-101 GATE EQUIPMENT FOUNDATION DETAIL
SCALE:1/2" = 1'-0"

| Revisions: | Date: |
|---|---|
| | |

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Drawing Title: DETAILS I
Approved: Project Director
Phase: CONSTRUCTION DOCUMENTS
Project Title: PARKING LOT REPLACEMENT AND EXPANSION
Location: 130 WEST KINGSBRIDGE ROAD, BRONX, NEW YORK 10468
Issue Date: 10/22/2019
Checked: J.S.D.
Drawn: A.S.C.
Project Number: 526-17-107
Building Number:
Drawing Number: CP-101

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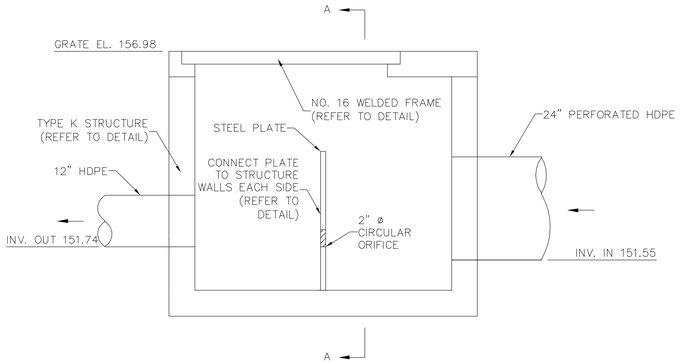
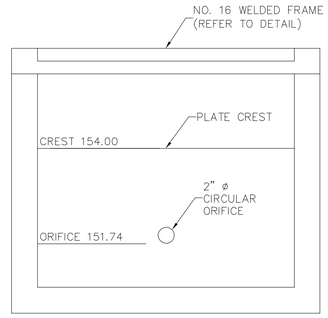
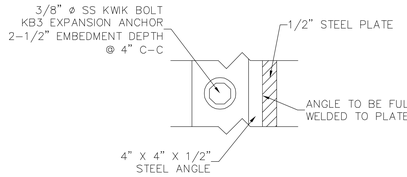


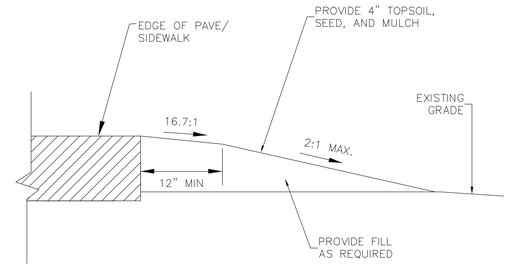

SECTION A–A
NOT TO SCALE

## 1 CP–102 INLET 60CS WITH OUTLET CONTROL PLATE

SCALE: NOT TO SCALE



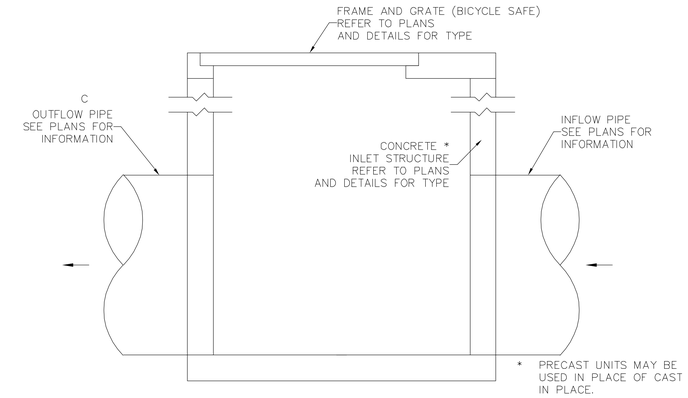

NOTES:
1. ALL STEEL SHALL HAVE A MINIMUM YIELD STRESS OF 36 KSI.
2. TWO COATS (MIN. 30 MIL APPLIED THICKNESS) OF RUSTOLEUM C9578 SYSTEM COAL TAR EPOXY, OR APPROVED EQUAL, SHALL BE APPLIED TO ALL STEEL.




NOTES:
1. PROVIDE FILL AS REQUIRED
2. CUT SECTION IS SIMILAR TO FILL SECTION SHOWN
3. GRADE EXISTING ROAD TO ALL NEW WORK TO PROVIDE A SMOOTH TRANSITION

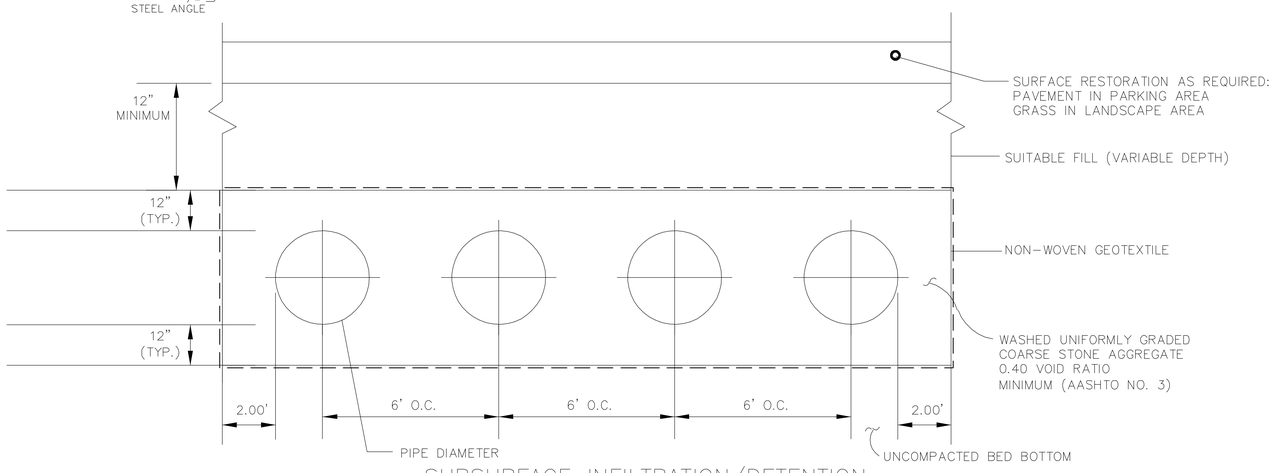
## 3 CP–102 TYPICAL GRADING AT EDGE OF PAVEMENT, SIDEWALK, AND NEW WORK

SCALE: NOT TO SCALE



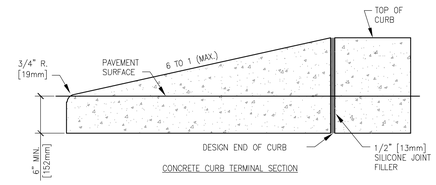

## 4 CP–102 TYPICAL INLET DETAIL

SCALE: NOT TO SCALE

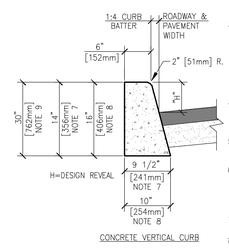



## 2 CP–102 SUBSURFACE INFILTRATION/DETENTION BASIN DETAIL

SCALE: NOT TO SCALE




CONCRETE CURB TERMINAL SECTION




CONCRETE VERTICAL CURB

NOTES:
1. ALL CONCRETE CURBS AND TRANSITIONS, SHALL BE CLASS "B" CONCRETE.
2. MAXIMUM SPACING ON SCORED JOINTS SHALL BE 15' [4572mm].
3. 1/2" [13mm] THICK EXPANSION JOINTS SHALL BE LOCATED AT TANGENT POINTS IN CURB RETURNS, TRANSITIONS, AND AT A MAXIMUM OF 60' [1828.8cm] INTERVALS. EXPANSION MATERIAL SHALL ALSO BE PLACED BETWEEN CURBS AND ADJACENT STRUCTURES, SIDEWALKS, DRIVEWAYS AND CURB ACCESS RAMPS. THE 1/2" [13mm] JOINT FILLER SHALL EXTEND THE FULL DEPTH OF THE CONCRETE.
4. CONCRETE SHALL BE FINISHED WITH A STEEL TROWEL FOLLOWED BY BRUSHING WITH A FINE BRUSH ALONG THE LENGTH OF THE CURB OR CURB AND GUTTER.
5. SINGLE CURB MAY BE CONSTRUCTED BY THE USE OF FORMS OR MAY BE SLIP FORMED.
6. ALL EXPOSED EDGES AND HAND TOOLED JOINTS SHALL BE FINISHED WITH A TOOL HAVING A 1/4" [6mm] RADIUS UNLESS A LARGER RADIUS IS INDICATED BY THE APPLICABLE STANDARD DETAIL OR PROJECT PLANS.
7. FOR REVEALS OF 6" [152mm] TO LESS THAN 8" [203mm].
8. FOR REVEALS OF 8" [203mm] TO 10" [254mm].
9. FOR EXTRA DEEP CURB.

## 5 CP–102 CONCRETE CURB AND TERMINAL SECTION

SCALE: NOT TO SCALE

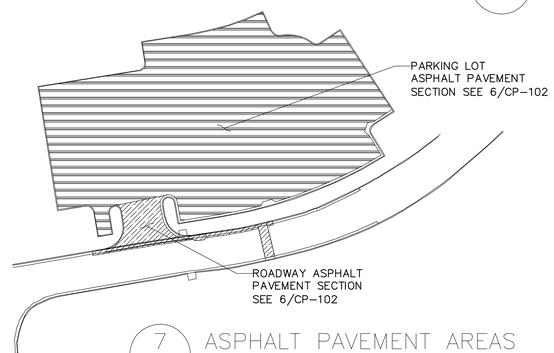
## 8 CP–102 STANDARD RETAINING WALL BLOCK – COLOR: NATURAL

SCALE: NOT TO SCALE

OWNERSHIP, OPERATIONS AND MAINTENANCE RESPONSIBILITY MATRIX

| FACILITY | POTENTIAL PROBLEM | REMEDIES: | ENTITY RESPONSIBLE**: |
|---|---|---|---|
| SUBSURFACE BASINS | OBSTRUCTED OUTLET<br>BASIN NOT DEWATERING BETWEEN STORMS<br>GENERAL MAINTENANCE | REMOVE DEBRIS.<br>CLEAR ORIFICE AND CHECK OUTLET PIPES FOR DEBRIS AND SEDIMENT. CLEAN INLET BOX GRATE.<br>INSPECT THE SUBSURFACE DETENTION/INFILTRATION FACILITIES BETWEEN MAY 1 AND JUNE 1 OF EACH YEAR TO VERIFY ITS CONDITION. | CONTRACTOR *** |
| PIPES | CLOGGED PIPE | FLUSH PIPE | CONTRACTOR *** |
| INLET | SILT AND DEBRIS | REMOVE SILT AND DEBRIS | CONTRACTOR *** |
| EROSION AND SEDIMENT CONTROL | SOIL EROSION IN DISTURBED AREAS AND EMBANKMENTS FOLLOWING CONSTRUCTION | IMPLEMENT EROSION AND SEDIMENT CONTROL PLAN. INSTALL AND MAINTAIN BMPS AS REQUIRED. INSTALL AND MAINTAIN ADDITIONAL BMPS AS NECESSARY TO MEET THE REQUIREMENTS OF THE EROSION AND SEDIMENT CONTROL PLAN AND REGULATORY AGENCIES. | CONTRACTOR *** |

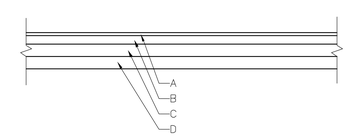
* DO NOT COMPACT BOTTOM OF BASIN BED. THIS MAY IMPAIR INFILTRATION.
** PROPERTY OWNER AS DEFINED BY PROPERTY LINES/RIGHT–OF–WAY.
*** PROPERTY OWNER SHALL BE RESPONSIBLE FOR O&M AFTER THE END OF THE CONSTRUCTION PERIOD.




## 7 CP–102 ASPHALT PAVEMENT AREAS

SCALE: NOT TO SCALE

NOTES:
1. ALL EXISTING ASPHALT PAVEMENT SHALL BE RESTORED TO THE MINIMUM ROADWAY SECTION OR MATCH EXISTING EDGE IF GREATER. SEE 6/CP–102.




| | |
|---|---|
| A | TYPE 7 TOP, 1–1/2" DEPTH* |
| B | TYPE 3 BINDER, 4" DEPTH FOR PARKING LOT<br>6" DEPTH FOR ROADWAYS* |
| C | TYPE 2 SUBBASE, 12" DEPTH* |
| D | N/A |

* MINIMUM FOR RESTORATION OF EXISTING, ASPHALT AND PAVEMENT. INCREASE IF EXISTING IS DEEPER.

## 6 CP–102 ASPHALT PAVEMENT SECTION

SCALE: NOT TO SCALE

Revisions: Date:

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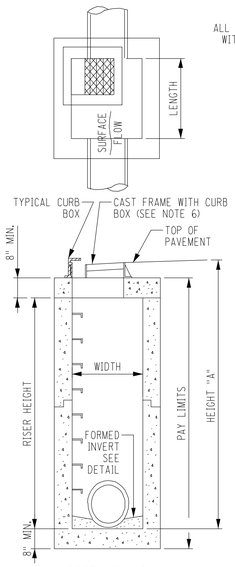
Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

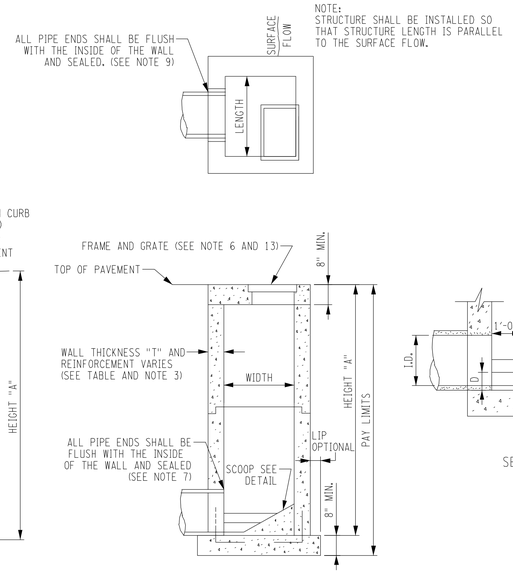
Drawing Title: DETAILS II
Approved: Project Director
Phase: CONSTRUCTION DOCUMENTS
Project Title: PARKING LOT REPLACEMENT AND EXPANSION
Location: 130 WEST KINGSBRIDGE ROAD, BRONX, NEW YORK 10468
Issue Date: 10/22/2019
Checked: J.S.D.
Drawn: A.S.C.
Project Number: 526-17-107
Building Number:
Drawing Number: CP-102

VA FORM 08 - 6231




RECTANGULAR DRAINAGE STRUCTURE TYPE A THROUGH P

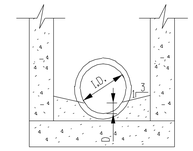
SHOWN WITH CURB BOX, FORMED INVERT, AND A MONOLITHICALLY CAST FLOOR SLAB



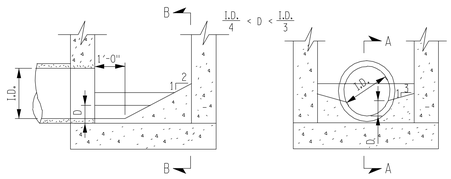

NOTE:
STRUCTURE SHALL BE INSTALLED SO THAT STRUCTURE LENGTH IS PARALLEL TO THE SURFACE FLOW.

RECTANGULAR DRAINAGE STRUCTURE TYPE A THROUGH P

SHOWN WITH WELDED FRAME, SCOOP AND INTEGRAL FLOOR SLAB.



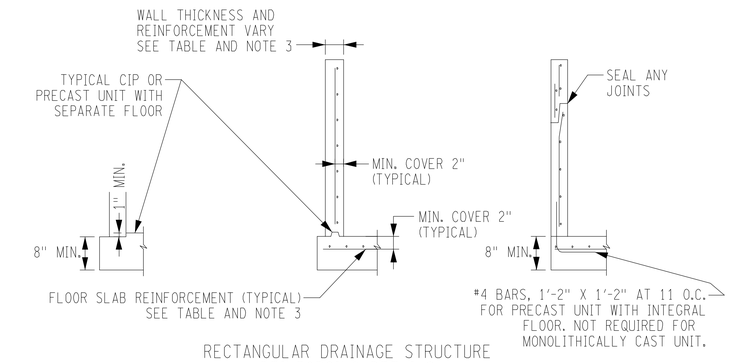

FORMED INVERT DETAIL
(SEE NOTE 5)



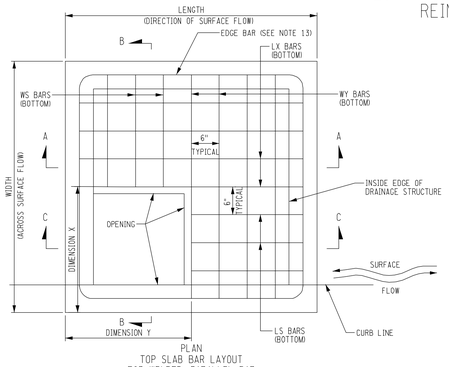

SECTION A-A

SECTION B-B

SCOOP DETAILS

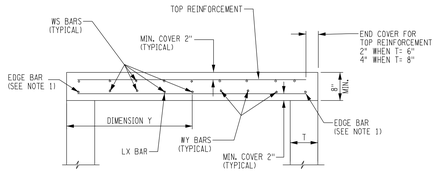



RECTANGULAR DRAINAGE STRUCTURE REINFORCING DETAILS




PLAN
TOP SLAB BAR LAYOUT FOR WELDED, PARALLEL BAR AND CAST FRAMES

SEE TABLES FOR BAR LIST AND TOP SLAB DIMENSIONS




SECTION A-A

GENERAL NOTES:

1. DRAINAGE STRUCTURES SHALL BE CAST IN PLACE OR PRECAST UNITS. ROUND DRAINAGE STRUCTURES SHALL BE PRECAST ONLY. All CAST IN PLACE CONCRETE SHALL BE NYSDOT CLASS A. THE CONTRACTORS SHALL SUBMIT WORKING DRAWINGS FOR REVIEW AND APPROVAL OF ANY CHANGES TO THE STRUCTURES SHOWN ON THE STANDARD SHEETS OR CONTACT PLANS, OTHER THAN MINOR CHANGES APPROVED BY THE ENGINEER. USE OF FLAT SLAB TOPS ON ROUND PRECAST UNITS SHALL REQUIRE SUBMISSION OF WORKING DRAWINGS.

2. SEE PLANS FOR ELEVATIONS, DRAINAGE STRUCTURE LOCATIONS, TYPE OF GRATE UTILIZED, LOCATION OF SCOOPS, FORMED INVERTS, SUMPS AND DRAINS.

3. REINFORCEMENT FOR RECTANGULAR DRAINAGE UNITS (CAST IN PLACE OR PRECAST) BAR REINFORCEMENT INDICATED FOR RECTANGULAR TOP SLABS, RISERS AND BASES SHALL BE GRADE 60. WIRE FABRIC FOR CONCRETE REINFORCEMENT SHALL MEET THE REQUIREMENTS OF NYSDOT §709-02. RISER REINFORCEMENT SHALL BE PLACED SO IT WILL HAVE A MINIMUM COVER OF 2" BUT NO MORE THAN 4" FROM THE INSIDE FACE. THE REINFORCEMENT SHALL EXTEND COMPLETELY AROUND THE DRAINAGE STRUCTURE RISER AND SHALL BE LAPPED AND TIED. BASE REINFORCEMENT SHALL BE PLACED ABOVE THE MIDPOINT OF SLAB AND SHALL HAVE A MINIMUM CONCRETE COVER OF 2".

4. ROUND ALTERNATIVE: NOT ALLOWED

5. FORMED INVERTS:
FORMED INVERTS AND SCOOPS SHALL BE PROVIDED AND INCLUDED FOR DRAINAGE STRUCTURES. WHEN NON-CIRCULAR PIPES ARE USED, THE FORMED INVERT AND SUMP DETAILS SHALL BE MODIFIED TO FIT THE INVERTS.

6. GRATES:
CAST FRAMES MAY HAVE EITHER RETICULINE OR PARALLEL BAR GRATES, AND WELDED FRAMES MAY HAVE EITHER RETICULINE OR RECTANGULAR GRATES. IF NO GRATE IS SPECIFIED IN THE CONTRACT DOCUMENTS, THE CONTRACTOR MAY FURNISH EITHER TYPE. GRATES SHALL BE INSTALLED SO THAT THE LENGTH OF THE GRATE IS PARALLEL TO THE SURFACE FLOW. FRAME AND GRATES SHALL CONFORM TO NYSDOT §655. ALL GRATES SHALL BE BICYCLE SAFE.

7. WALL OPENINGS:
RECTANGULAR DRAINAGE STRUCTURES SHOWN ON THESE STANDARD SHEETS SHOULD NEVER HAVE CORNER PIPE ENTRIES. IF PIPE ALIGNMENT WOULD REQUIRE A CORNER ENTRY, USE A ROUND DRAINAGE STRUCTURE OR USE A SPECIAL DRAINAGE STRUCTURE. ALL WALL OPENINGS SHALL BE FORMED COMPLETELY THROUGH THE WALL SECTION. CIRCULAR WALL OPENINGS SHALL BE FORMED FOR EACH CIRCULAR PIPE ENTERING PERPENDICULAR TO THE WALL. WHEN NON-CIRCULAR PIPES ARE SPECIFIED, OR ROUND PIPE ENTRIES ARE SKEWED, RECTANGULAR OPENINGS MAY BE USED. THE CLEARANCE BETWEEN THE OUTSIDE OF THE PIPE AND THE OPENING SHALL BE AT LEAST 2" BUT NO MORE THAN 3". THIS CLEARANCE SHALL BE MEASURED BETWEEN THE OUTSIDE OF THE PIPE AND NEAREST POINT ON THE RECTANGULAR OPENING. IF A CORNER HAS PIPE ENTRIES ON BOTH SIDES, AND THERE IS LESS THAN 2" BETWEEN EITHER OPENING AND THE CORNER. THEN THAT SECTION OF THE DRAINAGE STRUCTURE MUST HAVE 8" THICK WALLS.

8. MONOLITHIC AND INTEGRAL BASES MAY HAVE A MAXIMUM VERTICAL DRAFT OF ½" ON ALL INTERIOR DIMENSIONS, TO FACILITATE FORM REMOVAL. FOR WALL OPENINGS THAT EXTEND THE FULL WIDTH OR LENGTH OF THE STRUCTURE, THE MINIMUM CLEARANCE BETWEEN THE OUTSIDE OF THE PIPE AND THE WALL OPENING SHALL BE 1½

9. FINISHING PIPE ENTRIES:
THE BELLS OF CONCRETE PIPE SHALL BE CUT OFF AT EVERY PIPE ENTRY WHERE THE BELL ENTERS A STRUCTURE. CONNECTIONS BETWEEN THE STRUCTURE AND PIPE SHALL BE MADE BY EITHER USING A RESILIENT CONNECTOR MEETING THE REQUIREMENTS OF ASTM C1478 OR BY COMPLETELY FILLING THE SPACE AROUND EACH PIPE WITH CONCRETE GROUTING MATERIAL OR CONCRETE REPAIR MATERIAL. IN CASE OF LARGE SPACES AROUND PIPES, CONCRETE PAYERS, COMPLETELY BEDDED IN GROUT OR CONCRETE REPAIR MATERIAL, MAY BE USED.

10. TOP SLAB AND OR FRAME AND GRATE ADJUSTMENT
A MINIMUM Of ½" Of BEDDING SHALL BE PLACED BETWEEN RISERS AND PRECAST TOP SLABS. GRADE ADJUSTMENT FOR TOP SLABS ANO/OR FRAMES AND GRATES OF UP TO 2½" SHALL BE MADE WITH BEDDING MATERIAL MEETING THE REQUIREMENTS OF CONCRETE GROUTING MATERIALS OR CONCRETE REPAIR MATERIAL. GRADE ADJUSTMENT FOR TOP SLABS ANO/OR FRAMES AND GRATES OF UP TO 6" SHALL BE MADE WITH A COMBINATION Of PRECAST CONCRETE PAYERS AND BEDDING MATERIALS. GRADE ADJUSTMENT FOR TOP SLABS ANO/OR FRAMES AND GRATES OF UP TO 1'-0" SHALL BE MADE WITH CAST-IN-PLACE CONCRETE OR A COMBINATION Of PRECAST CONCRETE ADJUSTMENT ELEMENTS AND BEDDING MATERIALS.

11. STEPS:
MANHOLE STEPS SHALL BE REQUIRED IN ALL DRAINAGE STRUCTURES DEEPER THAN 4'-0".

12. CORBELED OR CONICAL RISER SECTIONS AND FLAT SLAB REDUCERS: ROUND PRECAST DRAINAGE STRUCTURES OR MANHOLES WHEN ALLOWED OR SPECIFIED> MAY BE FITTED WITH CONCENTRIC OR ECCENTRIC CONICAL SECTIONS TO REDUCE THEIR DIAMETERS, PROVIDED THE USE OF SUCH DEVICES IS COMPATIBLE WITH THE DRAINAGE SYSTEM DESIGN. THE CONTRACTOR SHALL SUBMIT WORKING DRAWINGS FOR REVIEW AND APPROVAL Of FLAT SLAB REDUCERS FOR ROUND OR RECTANGULAR STRUCTURES. A WALL SECTION WITH A HEIGHT LESS THAN 6" BETWEEN THE TOP OF THE HIGHEST PIPE ENTRY AND THE BOTTOM Of A CONICAL SECTION OR FLAT SLAB REDUCER SHALL NOT BE PERMITTED.

13. WHEN PIPE LOCATIONS PROVIDE FOR LESS THAN 8" BETWEEN THE TOP OF THE UPPERMOST PIPE AND THE TOP OF THE RISER AND THE STRUCTURE MAY BE SUBJECTED TO HIGHWAY LOADS, CONTRACTOR TO PROVIDE A SPECIAL DESIGN.

14. WHEN SITE CONDITIONS REQUIRE A DRAINAGE STRUCTURE TO BE INSTALLED TO A DEPTH GREATER THAN THAT SHOWN IN THE CONTRACT DOCUMENTS, AN INSTALLATION TOLERANCE OF 8" IS PERMITTED WITHOUT REQUIRING AN INCREASE IN WALL THICKNESS OR REINFORCING STEEL AS REQUIRED BY THE DRAINAGE STRUCTURE REINFORCEMENT TABLE.

| DRAINAGE STRUCTURE REINFORCEMENT | | |
|---|---|---|
| HEIGHT "A" | WALL THICKNESS | RISER REINFORCEMENT (SEE NOTE 3) |
| UP TO 7'-0" | 6" | 6"X6"- W6 X W6 OR #3 BARS AT 10" BOTH HORIZ. AND VERT. |
| | 8" | UNREINFORCED |
| 7'-0" TO 14'-0" | 8" | 6"X6"- W8.5 X W8.5 OR #3 BARS AT 8" BOTH HORIZ. AND VERT. |
| 14'-0" TO 21'-0" | 8" | 4"X4"- W8.5 X W8.5 OR #3 BARS AT 5" BOTH HORIZ. AND VERT. |
| | | FLOOR SLAB REINFORCEMENT (SEE NOTE 3) |
| UP TO 7'-0" | | 6"X6"- W11 X W11 OR #3 BARS AT 6" IN BOTH DIRECTIONS |
| 7'-0" TO 14'-0" | | 4"X4"- W11 X W11 OR #3 BARS AT 4" IN BOTH DIRECTIONS |
| 14'-0" TO 21'-0" | | 4"X4"- W14 X W14 OR #3 BARS AT 3" IN BOTH DIRECTIONS |

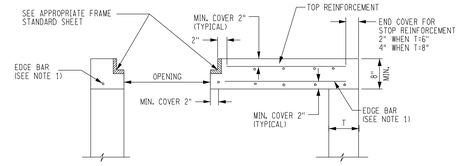
*T MAY BE 6" OR 8" FOR THE FIRST 7'-0". EXCEPTIONS ARE SIZE S, T, AND U WITH CURB, RECTANGULAR STRUCTURES WITH ROUND MANHOLE OPENING, OR IF THERE IS LESS THAN 2" ON EITHER SIDE OF A CORNER. (NOTE 7) WHICH MUST HAVE 8" THICK WALLS.

| STRUCTURE SIZES | | |
|---|---|---|
| STRUCTURE TYPE | INSIDE DIMENSIONS WIDTH | LENGTH |
| A | 3'-0" | 3'-0" |
| B | 4'-0" | 3'-0" |
| C | 5'-0" | 3'-0" |
| D | 6'-8" | 3'-0" |
| E | 3'-0" | 4'-0" |
| F | 4'-0" | 4'-0" |
| G | 5'-0" | 4'-0" |
| H | 6'-8" | 4'-0" |
| I | 3'-0" | 5'-0" |
| J | 4'-0" | 5'-0" |
| K | 5'-0" | 5'-0" |
| L | 6'-8" | 5'-0" |
| M | 3'-0" | 6'-8" |
| N | 4'-0" | 6'-8" |
| O | 5'-0" | 6'-8" |
| P | 6'-8" | 6'-8" |

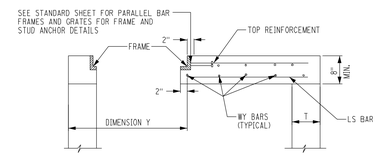
| FRAMES |
|---|
| FRAME TYPE |
| WELDED 3 |
| WELDED 6 |
| WELDED 11 |
| WELDED 16 |
| WELDED 22 |
| MANHOLE 2'-8" |
| CAST F1 |
| CAST F2 |
| CAST F3 |
| PARALLEL BAR 10PCB |
| PARALLEL BAR 11PCB |
| PARALLEL BAR 12PCB |

| OUTSIDE FRAME DIMENSIONS | | |
|---|---|---|
| FRAME NO. | WIDTH | LENGTH |
| 3 | 1'-11 5/16" | 3'-1½" |
| 6 | 2'-2⅝" | 2'-3½" |
| 11 | 2'-4 9/16" | 3'-1½" |
| 16 | 2'-7⅝" | 3'-1½" |
| 22 | 3'-2 9/16" | 3'-6½" |
| 10PCB | 2'-6⅝" | 3'-2½" |
| 11PCB | 2'-3⅝" | 4'-5½" |
| 12PCB | 2'-10⅛" | 3'-7½" |
| F1 | 3'-3½" MIN. | 2'-11" MIN. |
| F2 | 3'-3½" MIN. | 3'-9½" MIN. |
| F3 | 3'-3½" MIN. | 4'-7½" MIN. |

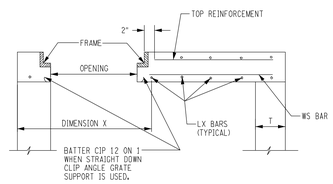
| TABLE OF "X" AND "Y" DIMENSIONS | | | | |
|---|---|---|---|---|
| | 6" THICK WALLS | | 8" THICK WALLS | |
| FRAME NO. | DIMENSION X | DIMENSION Y | DIMENSION X | DIMENSION Y |
| WELDED FRAMES | | | | |
| 3 | 2'-3" | 3'-4½" | 2'-5" | 3'-4½" |
| 6 | 2'-5½" | 2'-6½" | 2'-7½" | 2'-8½" |
| 11 | 2'-8" | 3'-4½" | 2'-10" | 3'-4½" |
| 16 | 2'-10½" | 4'-2½" | 3'-0½" | 4'-4½" |
| 22 | 3'-4" | 3'-9½" | 3'-8" | 3'-11½" |
| CAST IRON FRAMES | | | | |
| F1 | 3'-5" | 3'-0" | 3'-7" | 3'-2" |
| F2 | 3'-5" | 3'-10" | 3'-7" | 4'-0" |
| F3 | 3'-5" | 4'-8" | 3'-7" | 4'-10" |
| PARALLEL BAR FRAMES | | | | |
| 10PCB | 2'-8" | 3'-4½" | 2'-10" | 3'-4½" |
| 11PCB | 2'-10½" | 4'-2½" | 3'-0½" | 4'-4½" |
| 12PCB | 3'-4" | 3'-9½" | 3'-8" | 3'-11½" |



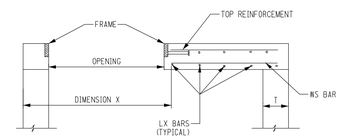

SECTION B-B
TYPICAL FOR ALL TYPES OF FRAMES




SECTION C-C
PARALLEL BAR FRAME




SECTION B-B
WELDED FRAME




SECTION B-B
PARALLEL BAR FRAME

| Revisions: | Date: |
|---|---|
| | |

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Office of Construction and Facilities Management

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Drawing Title: DETAILS III

Approved: Project Director

Phase: CONSTRUCTION DOCUMENTS

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Location: 130 WEST KINGSBRIDGE ROAD, BRONX, NEW YORK 10468

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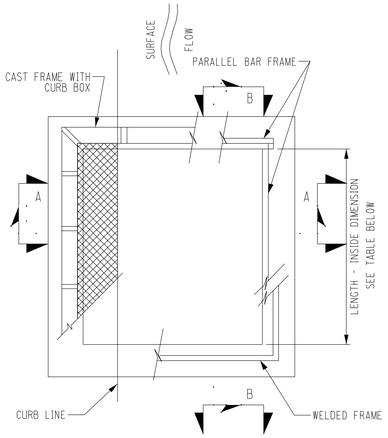
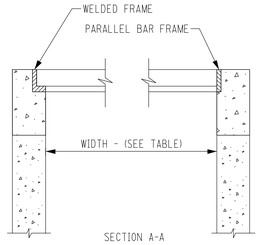



PLAN
RECTANGULAR DRAINAGE STRUCTURE TYPE Q, R, S, T, AND U

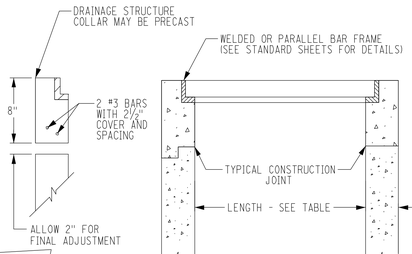



SECTION A-A
RECTANGULAR DRAINAGE STRUCTURE TYPE S, T, AND U

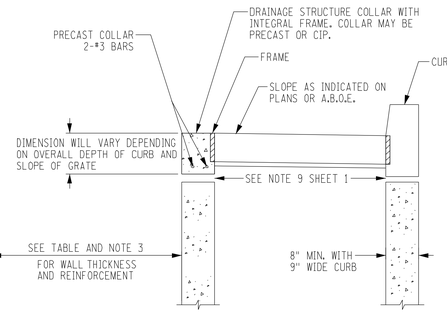
| RECTANGULAR DRAINAGE STRUCTURE | | | | | | |
|---|---|---|---|---|---|---|
| (TYPES Q THRU U) | | | INSIDE DIMENSIONS | | | |
| | | | PRECAST ** | | CAST IN PLACE | |
| ITEM | TYPE | FRAME | WIDTH | LENGTH | WIDTH | LENGTH |
| 604.301772 | Q | F2* | 34 | 36 | 33 | 36½ |
| 604.301873 | R | F3* | 34 | 46 | 33 | 46½ |
| 604.301911 | S | 11 | 24 | 32 | 24 | 32½ |
| 604.301990 | S | 10PCB | 24 | 32 | 24 | 32½ |
| 604.302016 | T | 16 | 26 | 42 | 26½ | 42½ |
| 604.302091 | T | 11PCB | 26 | 42 | 26½ | 42½ |
| 604.302122 | U | 22 | 34 | 38 | 34 | 37½ |
| 604.302192 | U | 12PCB | 34 | 38 | 34 | 37½ |

* SEE CONTRACT DOCUMENTS FOR GRATE AND CURB BOX TYPE

** PRECAST TYPES S,T, AND U REQUIRE THE FRAME TO BE CAST INTO A SEPARATE COLLAR. THE FRAME COLLAR SHALL HAVE INSIDE DIMENSIONS AS SHOWN FOR "CAST-IN-PLACE" IN THIS TABLE. OUTSIDE DIMENSIONS TO MATCH THE PRECAST RISER, AND BE 8" HIGH MIN.




SECTION B-B
RECTANGULAR DRAINAGE STRUCTURE TYPE S, T, AND U




SECTION A-A
RECTANGULAR DRAINAGE STRUCTURE WITH COLLAR AND CURB TYPE S, T, AND U

ONLY PARALLEL BAR FRAME AND GRATE ALLOWED WITH THIS DETAIL

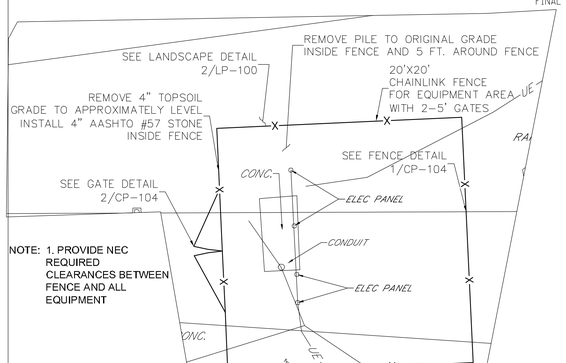
| BOTTOM REINFORCEMENT | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TOP SLAB WITH PARALLEL BAR FRAME | | | | | | | | | | | | | |
| STR. TYPE | FRAME NO. | NO. OF BARS | DESIG-NATION | NO. OF BARS | DESIG-NATION | NO. OF BARS | DESIG-NATION | NO. OF BARS | DESIG-NATION | NO. OF BARS | DESIG-NATION | NO. OF BARS | DESIG-NATION |
| F | 11PCB | | | 4 | 6LX3 | 7 | 6WS5 | 1 | 6WY3 | 4 | 6E3 | | |
| G | 11PCB | | | 6 | 6LX3 | 7 | 6WS13 | 1 | 6WY5 | 2 | 6E5 | 2 | 6E3 |
| H | 11PCB | | | 9 | 7LX3 | 7 | 7WS21 | 1 | 7WY7 | 2 | 7E7 | 2 | 7E3 |
| J | 12PCB | 6 | 6LS9 | 1 | 6LX5 | | | 4 | 6WY1 | 2 | 6E1 | 2 | 6E5 |
| J | 10PCB | 4 | 6LS14 | 4 | 6LX5 | 5 | 6WS7 | 5 | 6WY3 | 2 | 6E3 | 2 | 6E5 |
| K | 10PCB | 4 | 6LS14 | 6 | 6LX5 | 5 | 6WS15 | 5 | 6WY5 | 4 | 6E5 | | |
| K | 12PCB | 6 | 6LS9 | 5 | 6LX5 | 6 | 6WS8 | 4 | 6WY5 | 4 | 6E5 | | |
| L | 10PCB | 4 | 7LS14 | 10 | 7LX5 | 5 | 7WS23 | 5 | 7WY7 | 2 | 7E7 | 2 | 7E5 |
| L | 12PCB | 6 | 7LS9 | 8 | 7LX5 | 6 | 7WS19 | 4 | 7WY7 | 2 | 7E7 | 2 | 7E5 |
| M | 12PCB | 6 | 7LS22 | 1 | 7LX7 | | | 7 | 6WY1 | 2 | 6E1 | 2 | 7E7 |
| N | 10PCB | 4 | 7LS25 | 4 | 7LX7 | 5 | 7WS4 | 8 | 7WY3 | 2 | 7E3 | 2 | 7E7 |
| N | 11PCB | 4 | 7LS19 | 4 | 7LX7 | 7 | 7WS3 | 6 | 7WY3 | 2 | 7E3 | 2 | 7E7 |
| O | 10PCB | 4 | 7LS25 | 6 | 7LX7 | 5 | 7WS12 | 8 | 7WY5 | 2 | 7E5 | 2 | 7E7 |
| O | 11PCB | 4 | 7LS19 | 6 | 7LX7 | 7 | 7WS10 | 6 | 7WY5 | 2 | 7E5 | 2 | 7E7 |
| O | 12PCB | 6 | 7LS22 | 5 | 7LX7 | 6 | 7WS5 | 7 | 7WY5 | 2 | 7E5 | 2 | 7E7 |
| P | 10PCB | 4 | 7LS25 | 10 | 7LX7 | 5 | 7WS23 | 8 | 7WY7 | 4 | 7E7 | | |
| P | 11PCB | 5 | 7LS19 | 9 | 7LX7 | 7 | 7WS21 | 6 | 7WY7 | 4 | 7E7 | | |
| P | 12PCB | 4 | 7LS22 | 8 | 7LX7 | 6 | 7WS19 | 7 | 7WY7 | 4 | 7E7 | | |

| BOTTOM REINFORCEMENT | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TOP SLAB WITH CAST FRAME | | | | | | | | | | | | | |
| STR. TYPE | FRAME NO. | NO. OF BARS | DESIG-NATION | NO. OF BARS | DESIG-NATION | NO. OF BARS | DESIG-NATION | NO. OF BARS | DESIG-NATION | NO. OF BARS | DESIG-NATION | NO. OF BARS | DESIG-NATION |
| F | F1 | 5 | 6LS7 | 3 | 6LX3 | 4 | 6WS2 | 4 | 6WY3 | 4 | 6E3 | | |
| F | F3 | | | 3 | 6LX3 | 8 | 6WS2 | | | 4 | 6E3 | | |
| G | F1 | 5 | 6LS7 | 5 | 6LX3 | 4 | 6WS9 | 4 | 6WY5 | 2 | 6E5 | 2 | 6E3 |
| G | F3 | | | 5 | 6LX3 | 8 | 6WS9 | | | 2 | 6E5 | 2 | 6E3 |
| H | F1 | 5 | 7LS7 | 8 | 7LX3 | 4 | 7WS19 | 4 | 7WY7 | 2 | 7E7 | 2 | 7E3 |
| J | F1 | 5 | 6LS16 | 3 | 6LX5 | 4 | 6WS1 | 5 | 6WY3 | 2 | 6E3 | 2 | 6E5 |
| J | F2 | 5 | 6LS8 | 3 | 6LX5 | 6 | 6WS1 | 4 | 6WY3 | 2 | 6E3 | 2 | 6E5 |
| K | F1 | 5 | 6LS16 | 5 | 6LX5 | 4 | 6WS9 | 5 | 6WY5 | 4 | 6E5 | | |
| K | F2 | 5 | 6LS8 | 5 | 6LX5 | 6 | 6WS9 | 4 | 6WY5 | 4 | 6E5 | | |
| L | F1 | 5 | 7LS16 | 8 | 7LX5 | 4 | 7WS19 | 5 | 7WY7 | 2 | 7E7 | 2 | 7E5 |
| L | F2 | 5 | 7LS8 | 8 | 7LX5 | 6 | 7WS19 | 4 | 7WY7 | 2 | 7E7 | 2 | 7E5 |
| N | F1 | 5 | 7LS27 | 3 | 7LX7 | 4 | 7WS2 | 9 | 7WY3 | 2 | 7E3 | 2 | 7E7 |
| N | F2 | 5 | 7LS21 | 3 | 7LX7 | 6 | 7WS2 | 7 | 7WY3 | 2 | 7E3 | 2 | 7E7 |
| N | F3 | 5 | 7LS16 | 3 | 7LX7 | 8 | 7WS2 | 6 | 7WY3 | 2 | 7E3 | 2 | 7E7 |
| O | F1 | 5 | 7LS27 | 6 | 7LX7 | 4 | 7WS6 | 9 | 7WY5 | 2 | 7E5 | 2 | 7E7 |
| O | F2 | 5 | 7LS21 | 5 | 7LX7 | 6 | 7WS6 | 7 | 7WY5 | 2 | 7E5 | 2 | 7E7 |
| O | F3 | 5 | 7LS16 | 5 | 7LX7 | 8 | 7WS6 | 6 | 7WY5 | 2 | 7E5 | 2 | 7E7 |
| P | F1 | 5 | 7LS27 | 8 | 7LX7 | 4 | 7WS19 | 9 | 7WY7 | 4 | 7E7 | | |
| P | F2 | 5 | 7LS21 | 8 | 7LX7 | 6 | 7WS19 | 7 | 7WY7 | 4 | 7E7 | | |
| P | F3 | 5 | 7LS16 | 8 | 7LX7 | 8 | 7WS19 | 6 | 7WY7 | 4 | 7E7 | | |

| BOTTOM REINFORCEMENT | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TOP SLAB WITH WELDED FRAME | | | | | | | | | | | | | |
| STR. TYPE | FRAME NO. | NO. OF BARS | DESIG-NATION | NO. OF BARS | DESIG-NATION | NO. OF BARS | DESIG-NATION | NO. OF BARS | DESIG-NATION | NO. OF BARS | DESIG-NATION | NO. OF BARS | DESIG-NATION |
| A | 3 | | | 3 | 6LX1 | 5 | 6WS2 | 1 | 6WY1 | 4 | 6E1 | | |
| B | 3 | | | 5 | 6LX1 | 5 | 6WS11 | 1 | 6WY3 | 2 | 6E3 | 2 | 6E1 |
| B | 11 | | | 4 | 6LX1 | 5 | 6WS7 | 1 | 6WY3 | 2 | 6E3 | 2 | 6E1 |
| C | 3 | | | 7 | 6LX1 | 5 | 6WS19 | 1 | 6WY5 | 2 | 6E5 | 2 | 6E1 |
| C | 11 | | | 6 | 6LX1 | 5 | 6WS15 | 1 | 6WY5 | 2 | 6E5 | 2 | 6E1 |
| D | 3 | | | 10 | 6LX1 | 5 | 6WS27 | 1 | 6WY7 | 2 | 6E7 | 2 | 6E1 |
| D | 11 | | | 9 | 6LX1 | 5 | 6WS23 | 1 | 6WY7 | 2 | 6E7 | 2 | 6E1 |
| E | 3 | 3 | 6LS4 | 3 | 6LX3 | 5 | 6WS2 | 3 | 6WY1 | 2 | 6E1 | 2 | 6E3 |
| F | 3 | 3 | 6LS4 | 5 | 6LX3 | 5 | 6WS11 | 3 | 6WY3 | 4 | 6E3 | | |
| F | 6 | 3 | 6LS12 | 4 | 6LX3 | 3 | 6WS9 | 4 | 6WY3 | 4 | 6E3 | | |
| F | 11 | 3 | 6LS4 | 4 | 6LX3 | 5 | 6WS7 | 3 | 6WY3 | 4 | 6E3 | | |
| G | 3 | 3 | 6LS4 | 7 | 6LX3 | 5 | 6WS19 | 3 | 6WY5 | 2 | 6E5 | 2 | 6E3 |
| G | 6 | 3 | 6LS2 | 6 | 6LX3 | 3 | 6WS17 | 4 | 6WY5 | 2 | 6E5 | 2 | 6E3 |
| G | 11 | 3 | 6LS4 | 6 | 6LX3 | 5 | 6WS15 | 3 | 6WY5 | 2 | 6E5 | 2 | 6E3 |
| H | 3 | 3 | 7LS4 | 10 | 7LX3 | 5 | 7WS27 | 3 | 7WY7 | 2 | 7E7 | 2 | 7E3 |
| H | 6 | 3 | 7LS12 | 10 | 7LX3 | 3 | 7WS25 | 4 | 7WY7 | 2 | 7E7 | 2 | 7E3 |
| H | 11 | 3 | 7LS4 | 9 | 7LX3 | 5 | 7WS23 | 3 | 7WY7 | 2 | 7E7 | 2 | 7E3 |
| I | 3 | 3 | 6LS14 | 3 | 6LX5 | 5 | 6WS2 | 5 | 6WY1 | 2 | 6E1 | 2 | 6E5 |
| J | 3 | 3 | 6LS14 | 5 | 6LX5 | 5 | 6WS11 | 5 | 6WY3 | 2 | 6E3 | 2 | 6E5 |
| J | 6 | 3 | 6LS19 | 4 | 6LX5 | 3 | 6WS9 | 6 | 6WY3 | 2 | 6E3 | 2 | 6E5 |
| J | 11 | 3 | 6LS14 | 4 | 6LX5 | 5 | 6WS7 | 5 | 6WY3 | 2 | 6E3 | 2 | 6E5 |
| J | 16 | 4 | 6LS5 | 4 | 6LX5 | 7 | 6WS5 | 3 | 6WY3 | 2 | 6E3 | 2 | 6E5 |
| K | 3 | 3 | 6LS14 | 7 | 6LX5 | 5 | 6WS19 | 5 | 6WY5 | 4 | 6E5 | | |
| K | 6 | 3 | 6LS19 | 6 | 6LX5 | 3 | 6WS17 | 6 | 6WY5 | 4 | 6E5 | | |
| K | 11 | 3 | 6LS14 | 6 | 6LX5 | 5 | 6WS15 | 5 | 6WY5 | 4 | 6E5 | | |
| K | 16 | 4 | 6LS5 | 6 | 6LX5 | 7 | 6WS13 | 3 | 6WY5 | 4 | 6E5 | | |
| K | 22 | 5 | 6LS9 | 4 | 6LX5 | 6 | 6WS8 | 4 | 6WY5 | 4 | 6E5 | | |
| L | 3 | 3 | 7LS14 | 10 | 7LX5 | 5 | 7WS27 | 5 | 7WY7 | 2 | 7E7 | 2 | 7E5 |
| L | 6 | 3 | 7LS19 | 10 | 7LX5 | 3 | 7WS25 | 6 | 7WY7 | 2 | 7E7 | 2 | 7E5 |
| L | 11 | 3 | 7LS14 | 9 | 7LX5 | 5 | 7WS23 | 5 | 7WY7 | 2 | 7E7 | 2 | 7E5 |
| L | 16 | 4 | 7LS5 | 9 | 7LX5 | 7 | 7WS21 | 3 | 7WY7 | 2 | 7E7 | 2 | 7E5 |
| L | 22 | 5 | 7LS9 | 8 | 7LX5 | 6 | 7WS19 | 4 | 7WY7 | 2 | 7E7 | 2 | 7E5 |
| M | 3 | 3 | 6LS25 | 3 | 6LX7 | 5 | 6WS2 | 8 | 6WY1 | 2 | 6E1 | 2 | 6E7 |
| N | 3 | 3 | 7LS25 | 5 | 7LX7 | 5 | 7WS8 | 8 | 7WY3 | 2 | 7E3 | 2 | 7E7 |
| N | 6 | 3 | 7LS30 | 4 | 7LX7 | 3 | 7WS6 | 10 | 7WY3 | 2 | 7E3 | 2 | 7E7 |
| N | 11 | 3 | 7LS25 | 3 | 7LX7 | 5 | 7WS4 | 8 | 7WY3 | 2 | 7E3 | 2 | 7E7 |
| N | 16 | 4 | 7LS19 | 4 | 7LX7 | 7 | 7WS3 | 6 | 7WY3 | 2 | 7E3 | 2 | 7E7 |
| O | 3 | 3 | 7LS25 | 7 | 7LX7 | 5 | 7WS16 | 8 | 7WY5 | 2 | 7E5 | 2 | 7E7 |
| O | 6 | 3 | 7LS30 | 7 | 7LX7 | 3 | 7WS14 | 10 | 7WY5 | 2 | 7E5 | 2 | 7E7 |
| O | 11 | 3 | 7LS25 | 6 | 7LX7 | 5 | 7WS12 | 8 | 7WY5 | 2 | 7E5 | 2 | 7E7 |
| O | 16 | 4 | 7LS19 | 6 | 7LX7 | 7 | 7WS10 | 6 | 7WY5 | 2 | 7E5 | 2 | 7E7 |
| O | 22 | 5 | 7LS22 | 4 | 7LX7 | 6 | 7WS5 | 7 | 7WY5 | 2 | 7E5 | 2 | 7E7 |
| P | 3 | 3 | 7LS25 | 10 | 7LX7 | 5 | 7WS27 | 8 | 7WY7 | 4 | 7E7 | | |
| P | 6 | 3 | 7LS30 | 10 | 7LX7 | 3 | 7WS25 | 10 | 7WY7 | 4 | 7E7 | | |
| P | 11 | 3 | 7LS25 | 9 | 7LX7 | 5 | 7WS23 | 8 | 7WY7 | 4 | 7E7 | | |
| P | 16 | 4 | 7LS19 | 9 | 7LX7 | 7 | 7WS21 | 6 | 7WY7 | 4 | 7E7 | | |
| P | 22 | 5 | 7LS22 | 8 | 7LX7 | 6 | 7WS19 | 7 | 7WY7 | 4 | 7E7 | | |

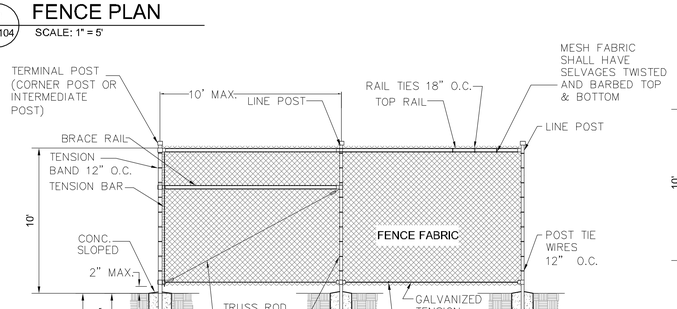
| BAR LIST | | | | | | | |
|---|---|---|---|---|---|---|---|
| DESIGNATION | LENGTH | SIZE | DESCRIPTION | DESIGNATION | LENGTH | SIZE | DESCRIPTION |
| 6LS4 | 1'-6" | #6 | SHORT L BAR | 7LS4 | 1'-6" | #7 | SHORT L BAR |
| 6LS5 | 1'-7" | #6 | SHORT L BAR | 7LS5 | 1'-7" | #7 | SHORT L BAR |
| 6LS7 | 1'-9" | #6 | SHORT L BAR | 7LS7 | 1'-9" | #7 | SHORT L BAR |
| 6LS8 | 1'-11" | #6 | SHORT L BAR | 7LS8 | 1'-11" | #7 | SHORT L BAR |
| 6LS9 | 2'-0" | #6 | SHORT L BAR | 7LS9 | 2'-0" | #7 | SHORT L BAR |
| 6LS12 | 2'-3" | #6 | SHORT L BAR | 7LS12 | 2'-3" | #7 | SHORT L BAR |
| 6LS14 | 2'-5" | #6 | SHORT L BAR | 7LS14 | 2'-5" | #7 | SHORT L BAR |
| 6LS16 | 2'-9" | #6 | SHORT L BAR | 7LS16 | 2'-9" | #7 | SHORT L BAR |
| 6LS19 | 3'-3" | #6 | SHORT L BAR | 7LS19 | 3'-3" | #7 | SHORT L BAR |
| 6LS25 | 4'-0" | #6 | SHORT L BAR | 7LS21 | 3'-7" | #7 | SHORT L BAR |
| 6LX1 | 3'-6" | #6 | LONG L BAR | 7LS22 | 3'-8" | #7 | SHORT L BAR |
| 6LX3 | 4'-6" | #6 | LONG L BAR | 7LS25 | 4'-1" | #7 | SHORT L BAR |
| 6LX5 | 5'-6" | #6 | LONG L BAR | 7LS27 | 4'-5" | #7 | SHORT L BAR |
| 6LX7 | 7'-2" | #6 | LONG L BAR | 7LS30 | 4'-11" | #7 | SHORT L BAR |
| 6WS1 | 1'-4" | #6 | SHORT W BAR | 7LX3 | 4'-6" | #7 | LONG L BAR |
| 6WS2 | 1'-6" | #6 | SHORT W BAR | 7LX5 | 6'-5" | #7 | LONG L BAR |
| 6WS5 | 1'-11" | #6 | SHORT W BAR | 7LX7 | 7'-2" | #7 | LONG L BAR |
| 6WS7 | 2'-2" | #6 | SHORT W BAR | 7WS2 | 1'-5" | #7 | SHORT W BAR |
| 6WS8 | 2'-3" | #6 | SHORT W BAR | 7WS3 | 1'-11" | #7 | SHORT W BAR |
| 6WS9 | 2'-4" | #6 | SHORT W BAR | 7WS4 | 2'-1" | #7 | SHORT W BAR |
| 6WS10 | 2'-5" | #6 | SHORT W BAR | 7WS5 | 2'-3" | #7 | SHORT W BAR |
| 6WS11 | 2'-7" | #6 | SHORT W BAR | 7WS6 | 2'-4" | #7 | SHORT W BAR |
| 6WS13 | 2'-11" | #6 | SHORT W BAR | 7WS7 | 2'-5" | #7 | SHORT W BAR |
| 6WS15 | 3'-2" | #6 | SHORT W BAR | 7WS8 | 2'-7" | #7 | SHORT W BAR |
| 6WS17 | 3'-4" | #6 | SHORT W BAR | 7WS10 | 2'-11" | #7 | SHORT W BAR |
| 6WS19 | 3'-7" | #6 | SHORT W BAR | 7WS12 | 3'-2" | #7 | SHORT W BAR |
| 6WS21 | 4'-1" | #6 | SHORT W BAR | 7WS14 | 3'-4" | #7 | SHORT W BAR |
| 6WS23 | 4'-10" | #6 | SHORT W BAR | 7WS16 | 3'-6" | #7 | SHORT W BAR |
| 6WS27 | 5'-3" | #6 | SHORT W BAR | 7WS19 | 4'-0" | #7 | SHORT W BAR |
| 6WY1 | 3'-6" | #6 | LONG W BAR | 7WS20 | 4'-1" | #7 | SHORT W BAR |
| 6WY3 | 4'-6" | #6 | LONG W BAR | 7WS21 | 4'-7" | #7 | SHORT W BAR |
| 6WY5 | 5'-6" | #6 | LONG W BAR | 7WS23 | 4'-10" | #7 | SHORT W BAR |
| 6WY7 | 7'-2" | #6 | LONG W BAR | 7WS25 | 5'-0" | #7 | SHORT W BAR |
| 6D1 | 1'-6" | #6 | DIAGONAL BAR | 7WS27 | 5'-3" | #7 | SHORT W BAR |
| 6E1 | 3'-3 3/8" | #6 | EDGE BAR | 7WY3 | 4'-6" | #7 | LONG W BAR |
| 6E3 | 4'-3 3/8" | #6 | EDGE BAR | 7WY5 | 5'-6" | #7 | LONG W BAR |
| 6E5 | 5'-3 3/8" | #6 | EDGE BAR | 7WY7 | 7'-2" | #7 | LONG W BAR |
| 6E7 | 6'-4 3/8" | #6 | EDGE BAR | 7E3 | 4'-3" | #7 | EDGE BAR |
| | | | | 7E5 | 5'-3" | #7 | EDGE BAR |
| | | | | 7E7 | 6'-11" | #7 | EDGE BAR |

| TOP SLAB DIMENSIONS | | | | | |
|---|---|---|---|---|---|
| STRUCTURE TYPE | 6" THICK WALLS | | 8" THICK WALLS | | TOP REINFORCEMENT (NOTES 3 AND 4) |
| | WIDTH | LENGTH | WIDTH | LENGTH | |
| A | 4'-0" | 4'-0" | 4'-4" | 4'-4" | 6" X 6" W4 X W4 |
| B | 5'-0" | 4'-0" | 5'-4" | 4'-4" | 6" X 6" W4 X W4 |
| C | 6'-0" | 4'-0" | 6'-4" | 4'-4" | 6" X 6" W4 X W4 |
| D | 7'-8" | 4'-0" | 8'-0" | 4'-4" | 6" X 6" W4 X W4 |
| E | 4'-0" | 5'-0" | 4'-4" | 5'-4" | 6" X 6" W4 X W4 |
| F | 5'-0" | 5'-0" | 5'-4" | 5'-4" | 6" X 6" W4 X W4 |
| G | 6'-0" | 5'-0" | 6'-4" | 5'-4" | 6" X 6" W4 X W4 |
| H | 7'-8" | 5'-0" | 8'-0" | 5'-4" | 6" X 6" W5 X W5 |
| I | 4'-0" | 6'-0" | 4'-4" | 6'-4" | 6" X 6" W4 X W4 |
| J | 5'-0" | 6'-0" | 5'-4" | 6'-4" | 6" X 6" W4 X W4 |
| K | 6'-0" | 6'-0" | 6'-4" | 6'-4" | 6" X 6" W4 X W4 |
| L | 7'-8" | 6'-0" | 8'-0" | 6'-4" | 6" X 6" W5 X W5 |
| M | 4'-0" | 7'-8" | 4'-4" | 8'-0" | 6" X 6" W5 X W5 |
| N | 5'-0" | 7'-8" | 5'-4" | 8'-0" | 6" X 6" W5 X W5 |
| O | 6'-0" | 7'-8" | 6'-4" | 8'-0" | 6" X 6" W5 X W5 |
| P | 7'-8" | 7'-8" | 8'-0" | 8'-0" | 6" X 6" W5 X W5 |




NOTE: 1. PROVIDE NEC REQUIRED CLEARANCES BETWEEN FENCE AND ALL EQUIPMENT

3 CP-104 FENCE PLAN
SCALE: 1" = 5'

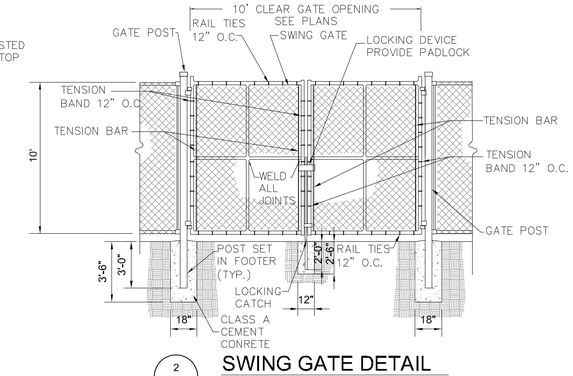



1 CP-104 FENCE ELEVATION
NOT TO SCALE

NOTE: 1. INSTALL TERMINAL POST AT ALL CHANGES IN HORIZONTAL DIRECTION. SIGNIFICANT CHANGES IN VERTICAL DIRECTION, AND AT AT MINIMUM EVERY 500 FT.

2. TEST PIT AT ALL FOOTERS. ADJUST TO AVOID EXISTING CONDUITS AS NECESSARY.

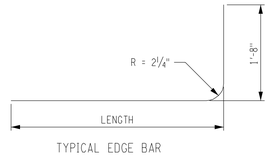
3. GRADE AREA TO DRAIN. RESTORE ALL DISTURBED AREA WITH 4" TOP SOIL SEED AND MULCH.



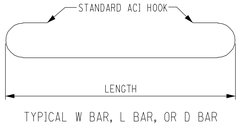

2 CP-104 SWING GATE DETAIL
NOT TO SCALE

NOTE: 1. TEST PIT AT ALL FOOTERS. ADJUST TO AVOID EXISTING CONDUITS AS NECESSARY.

(TILT BAR FROM VERTICAL IF NECESSARY TO MAINTAIN COVER)




TYPICAL EDGE BAR




TYPICAL W BAR, L BAR, OR D BAR

TOP SLAB REINFORCEMENT NOTES:

1. THE E BARS (EDGE BARS) ARE PLACED 3" FROM THE OUTSIDE EDGE FOR TOP SLABS ON 6" WALLS, AND 5: FROM THE OUTSIDE EDGE FOR 8" WALLS.

2. THE LX BARS ARE LOCATED USING THE X DIMENSIONS AND THE WY BARS ARE LOCATED USING THE Y DIMENSIONS. ALL W AND L BARS SHALL BE EVENLY SPACED AT APPROX. 6", SO THAT THE DISTANCE BETWEEN THE LAST W OR L BAR AND ADJACENT EDGE BAR SHALL NOT EXCEED 10".

3. TOP SLABS FOR TYPE A, B, C, D, F, G, I, J, K AND MOST M DRAINAGE STRUCTURES ARE REINFORCED WITH #6 AND 6X6, W4 X W4 FABRIC.

4. TOP SLABS FOR TYPE H, L, N, O, P AND PART OF TYPE M DRAINAGE STRUCTURES ARE REINFORCED WITH #7 BARS AND 6X6, W5 X W5 FABRIC. THE CONTRACTOR HAS THE OPTION OF USING #6 BARS AND A BAR SPACING OF 5", WHEN THIS OPTION IS USED, THE MAXIMUM DISTANCE BETWEEN THE LAST W OR L BAR AND THE EDGE BAR SHALL NOT EXCEED 9"

| Revisions: | Date: |
|---|---|
| | |

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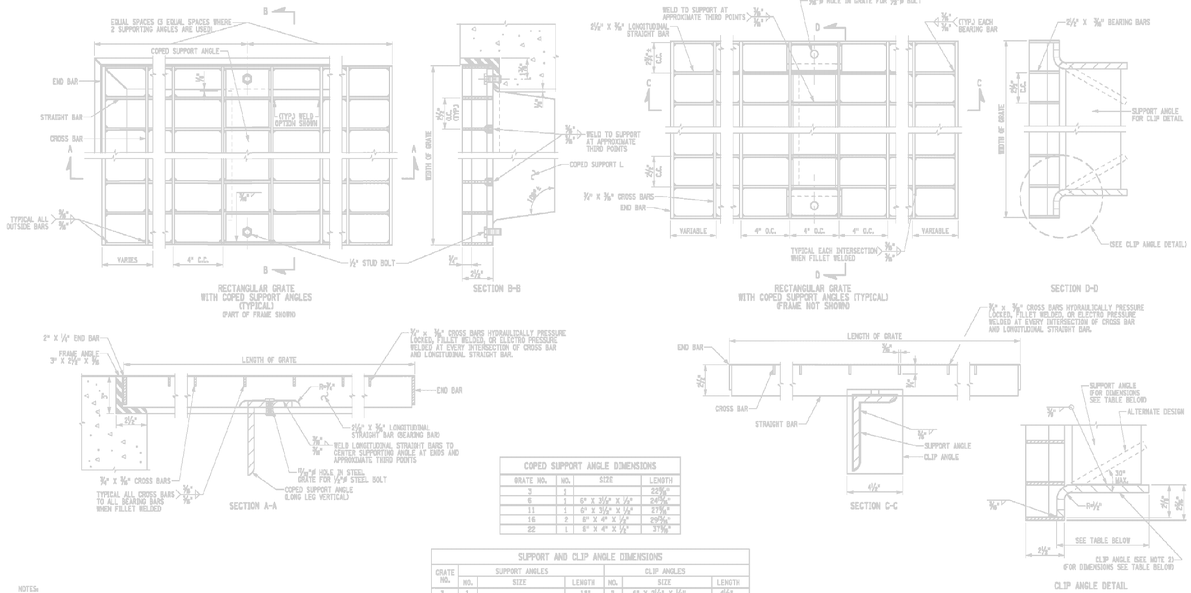
Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title: DETAILS IV
Phase: CONSTRUCTION DOCUMENTS
Project Title: PARKING LOT REPLACEMENT AND EXPANSION
Project Number: 526-17-107
Building Number:
Approved: Project Director
Location: 130 WEST KINGSBRIDGE ROAD, BRONX, NEW YORK 10468
Drawing Number: CP-104
Issue Date: 10/22/2019
Checked: J.S.D.
Drawn: A.S.C.

VA FORM 08-6231
File Path:
6/14/2019 12:35:03 PM




| COPED SUPPORT ANGLE DIMENSIONS | | | |
|---|---|---|---|
| GRATE NO. | NO. | SIZE | LENGTH |
| 3 | 1 | | 22 3/8" |
| 6 | 1 | 6" X 3 1/2" X 1/4" | 24 3/8" |
| 11 | 1 | 6" X 3 1/2" X 1/4" | 27 3/8" |
| 16 | 2 | 6" X 4" X 1/4" | 29 3/8" |
| 22 | 1 | 8" X 4" X 1/2" | 37 3/8" |

| SUPPORT AND CLIP ANGLE DIMENSIONS | | | | | | | |
|---|---|---|---|---|---|---|---|
| GRATE NO. | SUPPORT ANGLES | | | CLIP ANGLES | | | |
| | NO. | SIZE | LENGTH | NO. | SIZE | LENGTH |
| 3 | 1 | | 18" | 2 | 6" X 2 1/2" X 1/2" | 4 1/2" |
| 6 | 1 | 6" X 3 1/2" X 1/2" | 20 1/4" | 2 | 7" X 3 1/2" X 1/2" | 5 1/2" |
| 11 | 1 | 8" X 3 1/2" X 1/2" | 23" | 2 | 7" X 3 1/2" X 1/2" | 6 1/2" |
| 16 | 2 | 6" X 4" X 1/2" | 25 1/4" | 4 | 7" X 3 1/2" X 1/2" | 6 1/2" |
| 22 | 1 | 8" X 4" X 1/2" | 33" | 2 | 9" X 3 1/2" X 1/2" | 6 1/2" |

| GRATE DIMENSIONS AND MASSES | | | | | | | |
|---|---|---|---|---|---|---|---|
| GRATE NO. | OUTSIDE DIMENSIONS W2'7" X LENGTH | LONGITUDINAL STRAIGHT BARS 2 1/2" X 3/8" | | CROSS BARS 3/4" X 3/8" | | (2) 2" X 1/4" | APPROXIMATE MASS (LBS.) |
| | | NO. | LENGTH | NO. | LENGTH | LENGTH | |
| 3 | 22 3/8" X 35 1/4" | 10 | 30" | 8 | 22 3/8" | 22 3/8" | 86 |
| 6 | 24 3/8" X 38 1/4" | 11 | 28" | 8 | 24 3/8" | 24 3/8" | 93 |
| 11 | 27 3/8" X 38 1/4" | 12 | 30" | 8 | 27 3/8" | 27 3/8" | 102 |
| 16 | 29 3/8" X 44 1/4" | 13 | 46" | 11 | 30 3/8" | 30 3/8" | 119 3/8 |
| 22 | 37 1/8" X 41 1/4" | 16 | 41" | 10 | 37 1/8" | 37 1/8" | 172 |

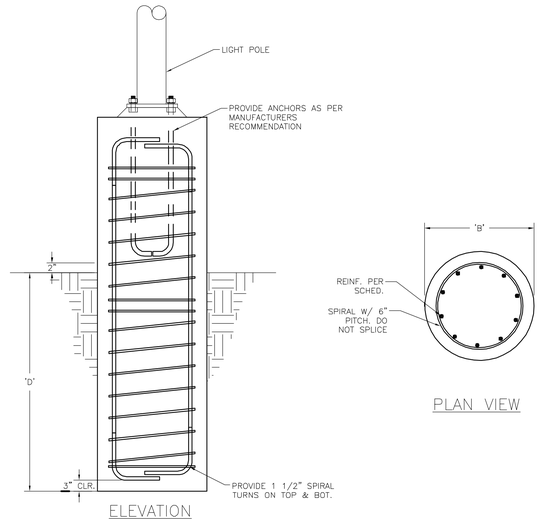
NOTES:

1. GRATES ARE DESIGNED FOR T1 KN WHEEL LOAD AS 19 LOADING.
2. CLIP ANGLES MAY BE CUT FROM STANDARD ASTM AS ANGLES OR FORMED FROM A 42/2 x 2/2 BAR. THE ALTERNATE CLIP ANGLE SHALL BE FORMED FROM A 42/2 x 2/2 BAR ONLY.
3. GRATE SHALL BE GROUND TO FIT FILLETS IN FRAME ANGLES.
4. WELDS ON OUTSIDE OF GRATE SHALL BE GROUND SMOOTH.
5. WELDS AND AREAS ADJACENT TO WELDS SHALL BE SAND OR SHOT BLASTED BEFORE GALVANIZING IN ORDER TO REMOVE ALL SCALE, RUST, SLAG AND SPLATTER, ETC.
6. GRATES SHALL BE HOT-DIP GALVANIZED AFTER ALL FABRICATION, GRINDING, TAPPING AND CLEANING HAVE BEEN COMPLETED.
7. GRATE SHALL BE BOLTED TO WELDED FRAME WITH TWO BOLTS. ONE ON EACH SIDE. BOLTS SHALL BE CORROSION RESISTANT; MONEL METAL OR TYPE 316 STAINLESS STEEL.

## RECTANGULAR GRATE DETAILS

NOT TO SCALE

NOTES:
1. NEW YORK PAY CODES DO NOT APPLY TO THIS PROJECT
2. SUMPS SHALL HAVE SOLID BOTTOM WITHOUT DRAIN

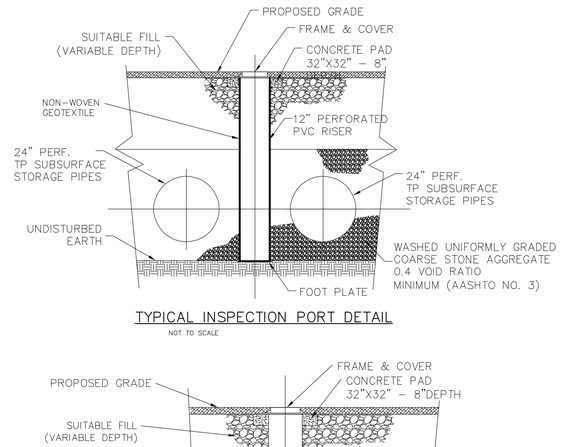



NOTES:
COORDINATE CONSTRUCTION OF LIGHT POLE FOOTING WITH ELECTRICAL CONTRACTOR.

| FOOTING SCHEDULE | | | | |
|---|---|---|---|---|
| POLE HEIGHT 'H' | FTG DEPTH 'D' | FTG DIAMETER 'B' | REINFORCING | |
| | | | VERTICAL | SPIRAL |
| H <= 17'-0" | 6'-0" | 1'-6" | 8 - #4 | #3 |
| 17'-0" < H < 26'-0" | 6'-0" | 2'-6" | 10 - #8 | #4 |

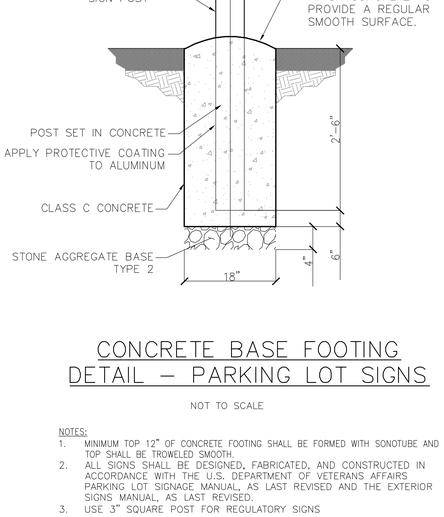
1 CP-105 LIGHT POLE FOOTING

SCALE: NOT TO SCALE




TYPICAL INSPECTION PORT DETAIL

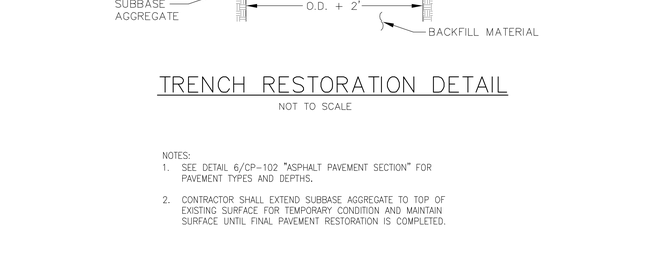
NOT TO SCALE




## CONCRETE BASE FOOTING DETAIL – PARKING LOT SIGNS

NOT TO SCALE

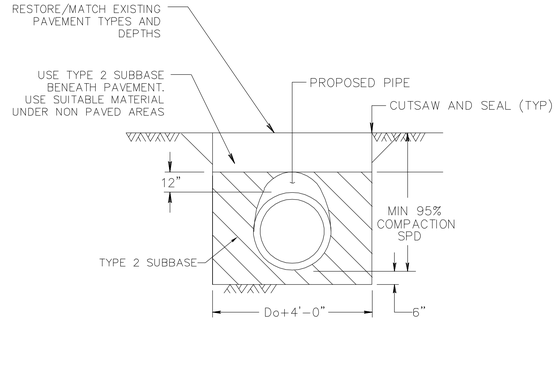
NOTES:
1. MINIMUM TOP 12" OF CONCRETE FOOTING SHALL BE FORMED WITH SONOTUBE AND TOP SHALL BE TROWELED SMOOTH.
2. ALL SIGNS SHALL BE DESIGNED, FABRICATED, AND CONSTRUCTED IN ACCORDANCE WITH THE U.S. DEPARTMENT OF VETERANS AFFAIRS PARKING LOT SIGNAGE MANUAL, AS LAST REVISED AND THE EXTERIOR SIGNS MANUAL, AS LAST REVISED.
3. USE 3" SQUARE POST FOR REGULATORY SIGNS



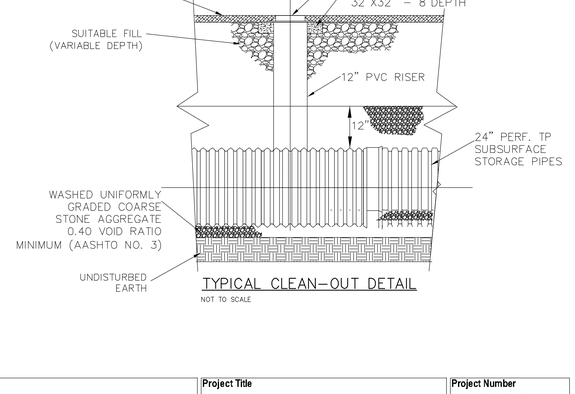

## TRENCH RESTORATION DETAIL

NOT TO SCALE

NOTES:
1. SEE DETAIL 6/CP-102 "ASPHALT PAVEMENT SECTION" FOR PAVEMENT TYPES AND DEPTHS.
2. CONTRACTOR SHALL EXTEND SUBBASE AGGREGATE TO TOP OF EXISTING SURFACE FOR TEMPORARY CONDITION AND MAINTAIN SURFACE UNTIL FINAL PAVEMENT RESTORATION IS COMPLETED.




* SUITABLE MATERIAL = MATERIAL CONTAINING NO DEBRIS, ORGANIC MATTER, FROZEN MATERIAL OR LARGE STONES WITH A DIAMETER GREATER THAN ONE-HALF THE THICKNESS OF THE COMPACTED LAYERS BEING PLACED.




TYPICAL CLEAN-OUT DETAIL

NOT TO SCALE

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|---|---|---|---|
| Drawing Title: DETAILS V | Phase: CONSTRUCTION DOCUMENTS | Project Title: PARKING LOT REPLACEMENT AND EXPANSION | Project Number: 526-17-107 |
| Approved: Project Director | | | Building Number: |
| | | Location: 130 WEST KINGSBRIDGE ROAD, BRONX, NEW YORK 10468 | Drawing Number: CP-105 |
| | | Issue Date: 10/22/2019 · Checked: J.S.D. · Drawn: A.S.C. | |

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File Path

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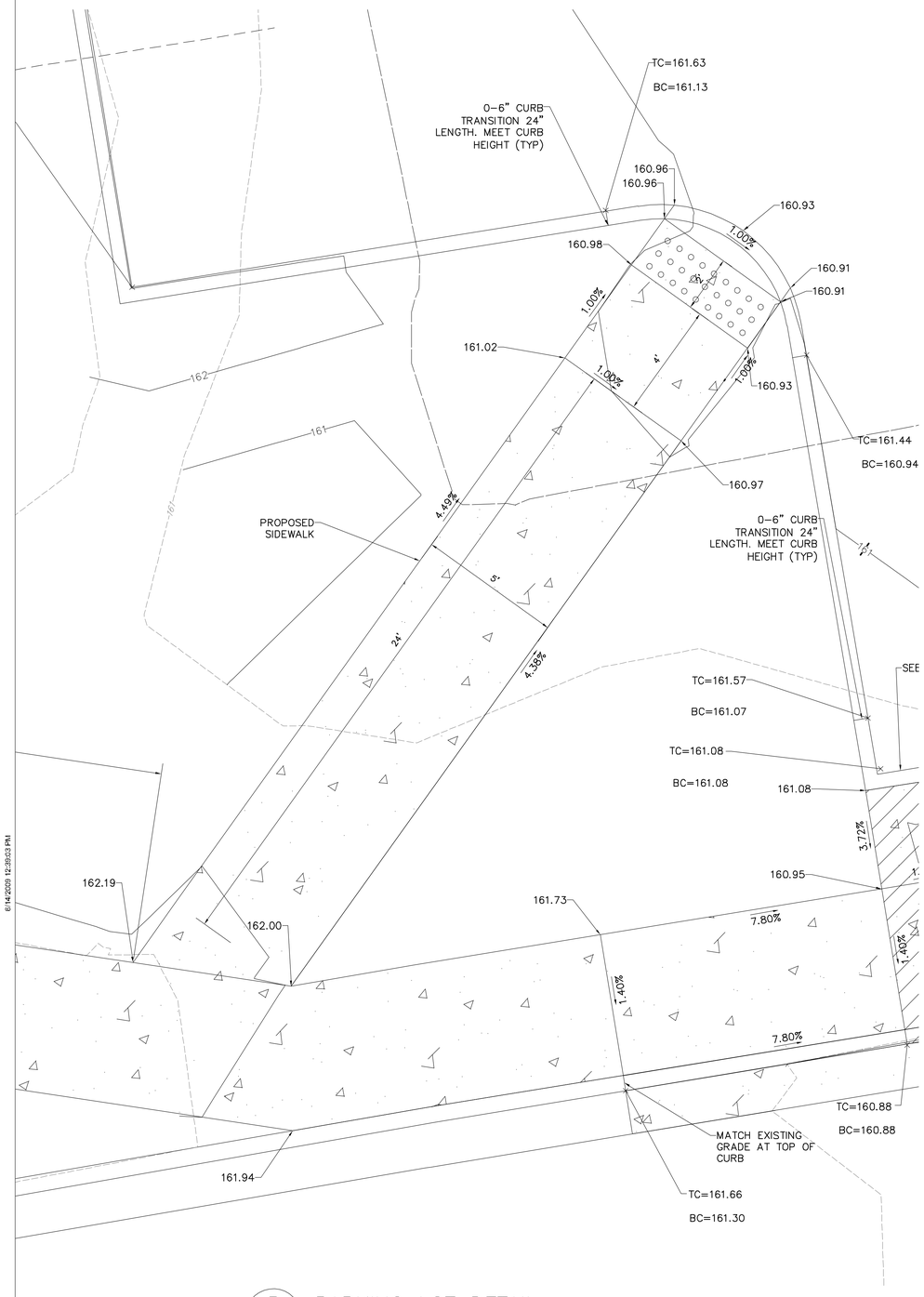
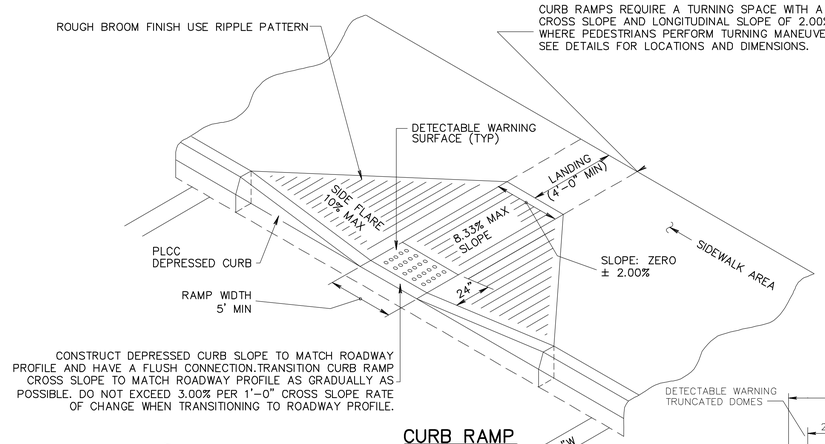
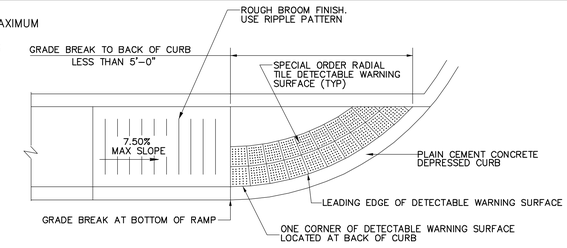


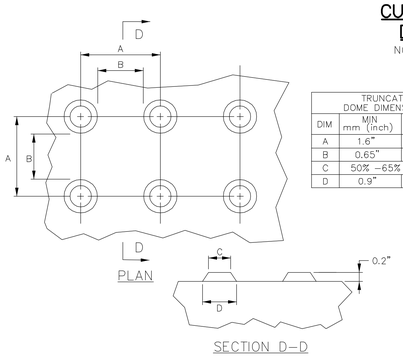

5 PARKING LOT DETAIL
CP–106 SCALE: 1"=2'




CURB RAMP DETAILS
NOT TO SCALE




CURB RAMP DETAILS
NOT TO SCALE



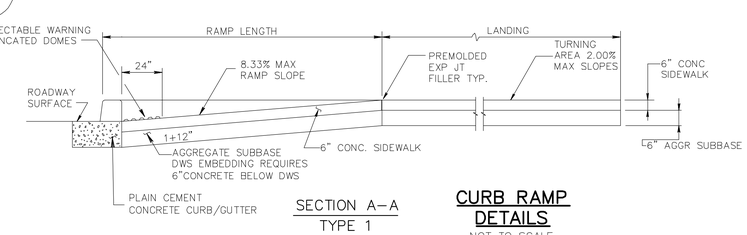

| TRUNCATED DOME DIMENSIONS | | |
|---|---|---|
| DIM | MIN mm (inch) | MAX mm (inch) |
| A | 1.6" | 2.4" |
| B | 0.65" | 1.5" |
| C | 50% –65% OF D DIM. | |
| D | 0.9" | 1.4" |

DETECTABLE WARNING SURFACE (DWS) TRUNCATED DOME DETAILS

DETECTABLE WARNING NOTES:

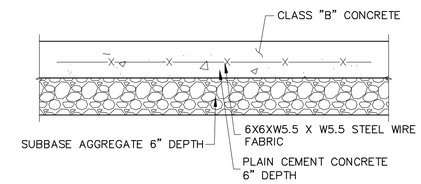
1. THE DETECTABLE WARNING STRIP MUST COVER THE ENTIRE WIDTH OF THE RAMP AND SIDEWALK OPENING, EXCLUDING THE WINGS. ALL DOMES MUST BE ALIGNED IN THE DIRECTION OF TRAVEL.
2. DETECTABLE WARNING SURFACE MATERIALS SHALL BE NYSDOT APPROVED PRODUCT.
3. INCREASE CONCRETE DEPTH SO FULL SIDEWALK CONCRETE DEPTH IS MANTANED UNDER DWS.

CURB RAMP DETAILS
NOT TO SCALE

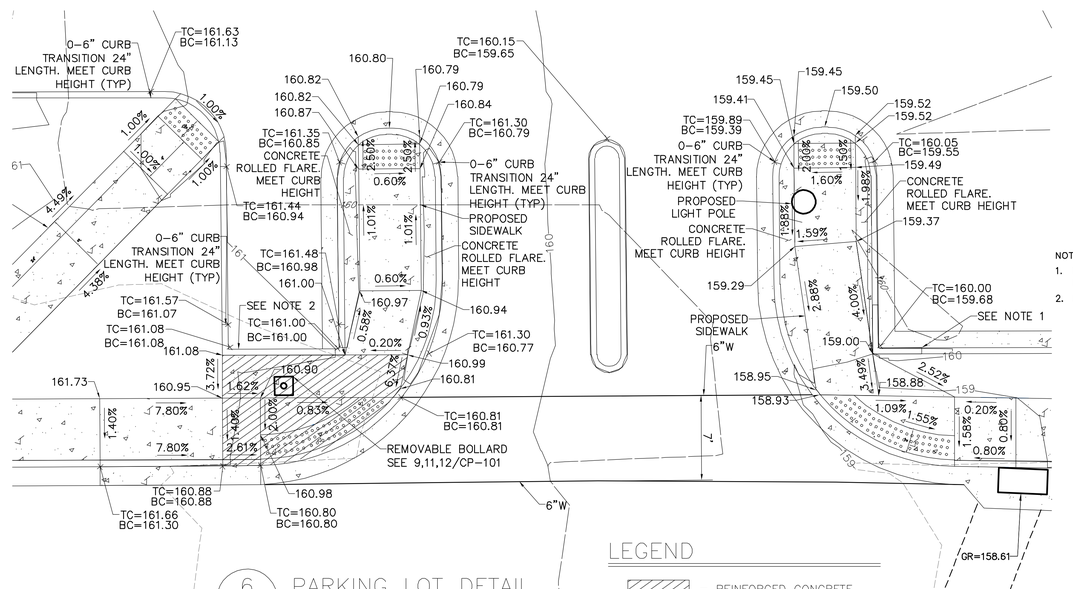



SECTION A–A
TYPE 1

CURB RAMP DETAILS
NOT TO SCALE




REINFORCED CONCRETE DRIVEWAY 6" DEPTH
NOT TO SCALE
NOTE: SEE PLAN FOR LOCATIONS.




NOTES:

1. PROVIDE EXTRA DEEP CURB FOR 4 FEET ON EACH SIDE FROM CORNER (8' TOTAL) SEE 5/CP–102, NOTE 9
2. USE 2–#5 AT DEPRESSED CURB

6 PARKING LOT DETAIL
CP–106 SCALE: 1"=5'

LEGEND

– REINFORCED CONCRETE DRIVEWAY 6" DEPTH

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| Drawing Title | Phase | Project Title | Project Number |
|---|---|---|---|
| ADA DETAILS I | CONSTRUCTION DOCUMENTS | PARKING LOT REPLACEMENT AND EXPANSION | 526-17-107 |
| Approved: Project Director | | Location: 130 WEST KINGSBRIDGE ROAD, BRONX, NEW YORK 10468 | Building Number |
| | | Issue Date: 10/22/2019 · Checked: J.S.D. · Drawn: A.S.C. | Drawing Number: CP-106 |

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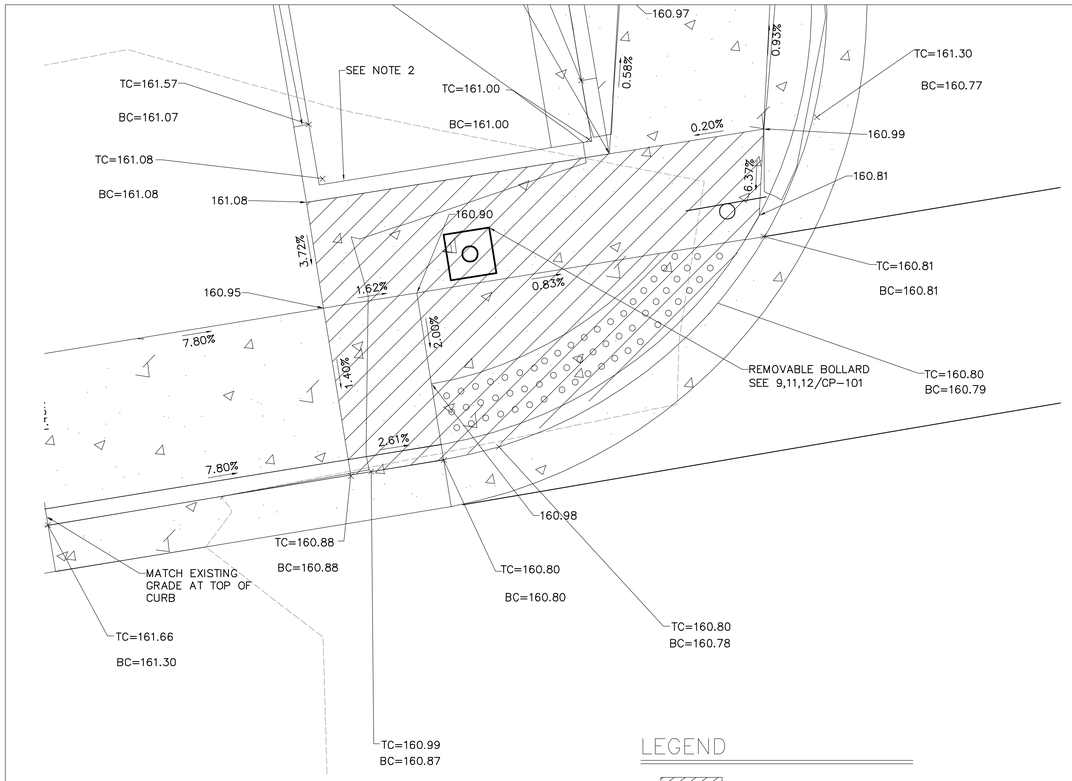
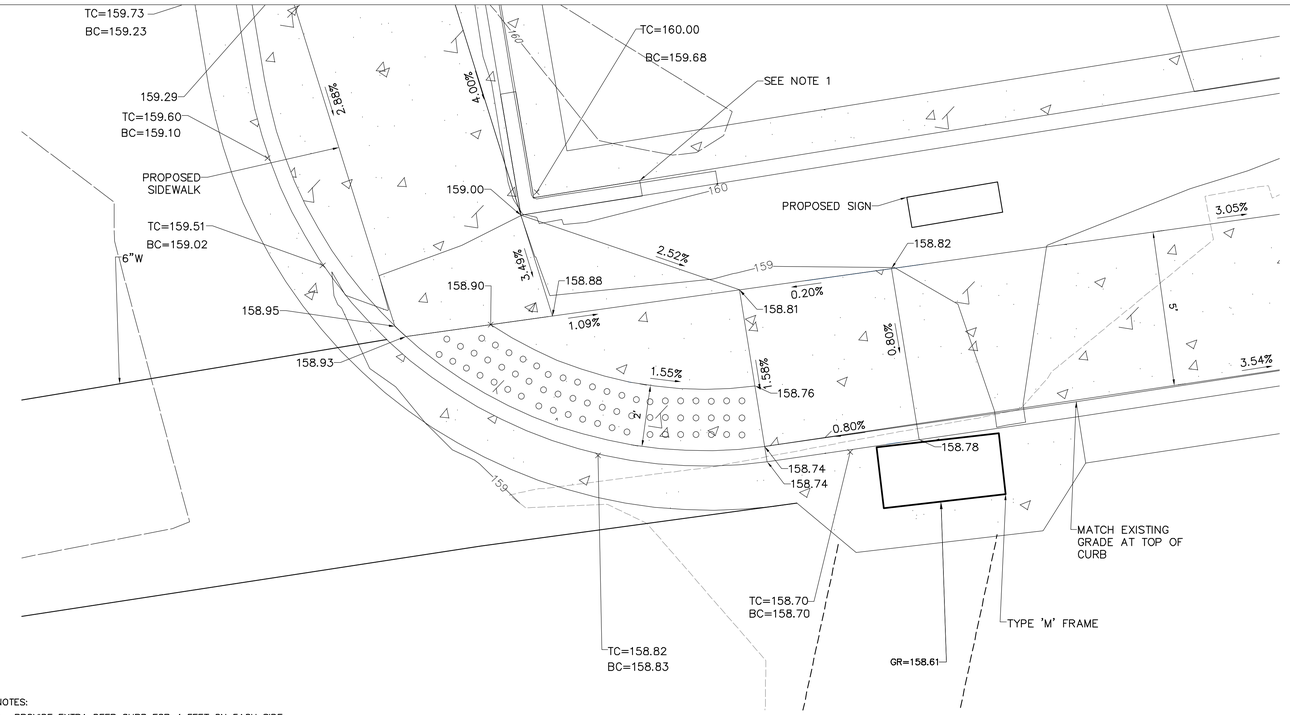



1 PARKING LOT DETAIL
CP-107 SCALE: 1"=2'

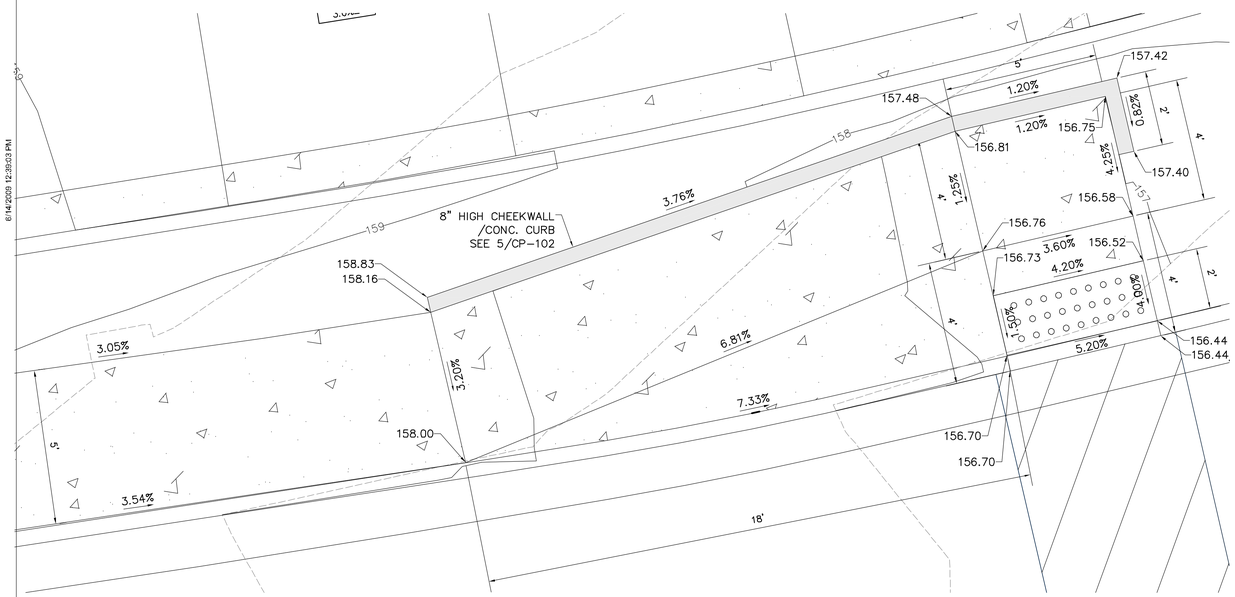
## LEGEND

- REINFORCED CONCRETE DRIVEWAY 6" DEPTH
- 8" HIGH CHEEKWALL CONCRETE CURB

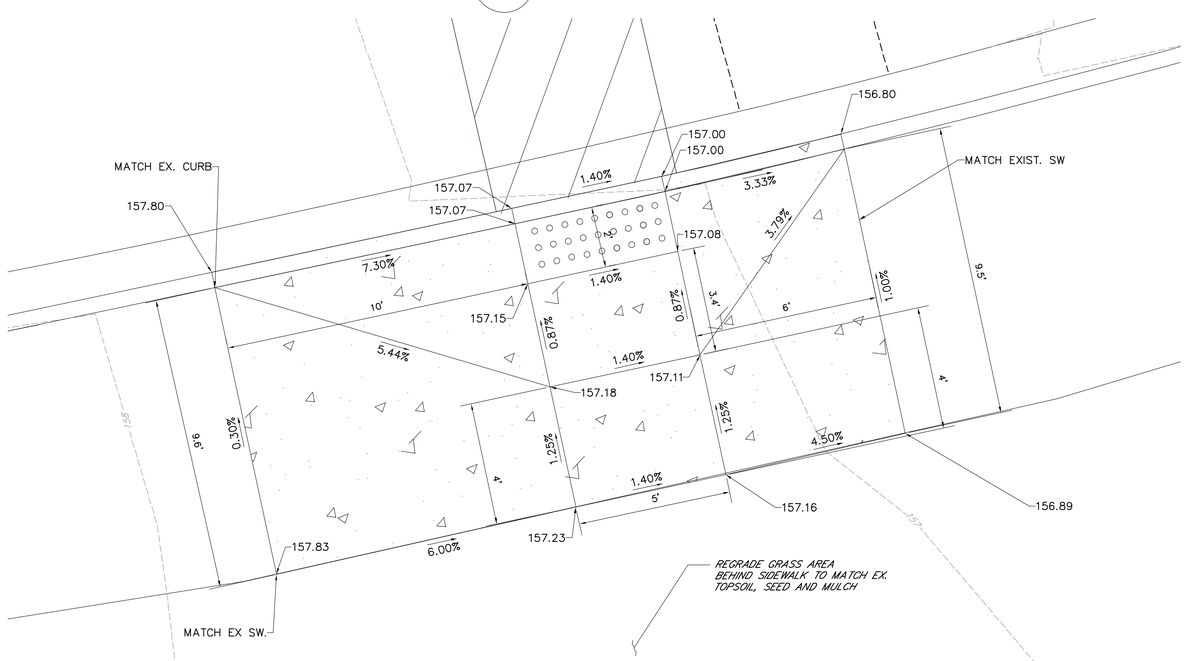



NOTES:
1. PROVIDE EXTRA DEEP CURB FOR 4 FEET ON EACH SIDE FROM CORNER (8' TOTAL) SEE 5/CP-102, NOTE 9
2. USE 2-#5 AT DEPRESSED CURB

2 PARKING LOT DETAIL
CP-107 SCALE: 1"=2'-0"




3 PARKING LOT DETAIL
CP-107 SCALE: 1"=2'-0"




4 PARKING LOT DETAIL
CP-107 SCALE: 1"=2'-0"

PROJECT NORTH
W E S

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| Drawing Title: ADA DETAILS II | Phase: CONSTRUCTION DOCUMENTS | Project Title: PARKING LOT REPLACEMENT AND EXPANSION | Project Number: 526-17-107 |
| Approved: Project Director | | | Building Number: |
| | | Location: 130 WEST KINGSBRIDGE ROAD, BRONX, NEW YORK 10468 | Drawing Number: CP-107 |
| | | Issue Date: 10/22/2019 · Checked: J.S.D. · Drawn: A.S.C. | |

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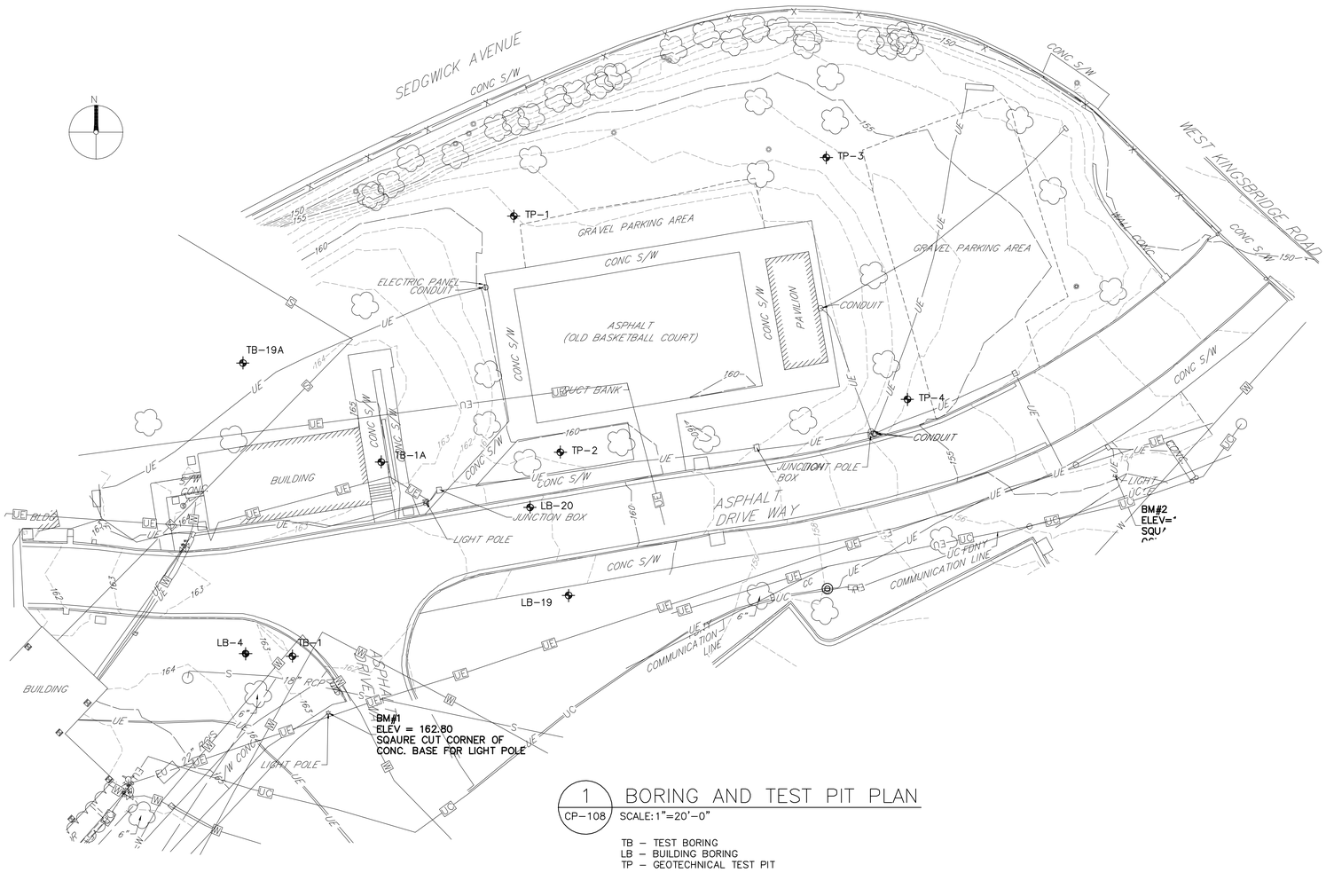


1 CP-108 BORING AND TEST PIT PLAN

SCALE: 1"=20'-0"

TB – TEST BORING
LB – BUILDING BORING
TP – GEOTECHNICAL TEST PIT

## NOTES

1. ALL LOCATIONS ARE APPROXIMATE.
2. INFORMATION ON THIS SHEET IS FOR INFORMATIONAL PURPOSES ONLY AND IS NOT A PART OF THE CONTRACT AND IS NOT TECHNICAL DATA UPON WHICH THE CONTRACTOR MAY RELY. CONTRACTOR SHALL BE REQUIRED TO REMOVE ALL ROCK AS ENCOUNTERED FOR THE PROJECT. EXCAVATION IS UNCLASSIFIED AND NO ADDITIONAL PAYMENT WILL BE MADE FOR ANY ROCK EXCAVATION.

◉ UTILITY LINE TEST PITS LOCATED 2" PVC CONDUIT ABOVE CONCRETE ENCASED 2" CONDUIT.

| BUILDING BORING | FILL THICKNESS | NATURAL SOIL THICKNESS | APPROXIMATE TOP OF COMPETENT SOIL ELEVATION | APPROXIMATE TOP OF DECOMPOSED ROCK ELEVATION* | COMMENTS |
|---|---|---|---|---|---|
| LB-4 | 7' | NOT ENCOUNTERED | NOT ENCOUNTERED | EL 156.4 | OBSERVATION WELL |
| LB-19 | 4.5' | 3.5' | EL 157.4 | EL 153.9 | |
| LB-20 | 2' | NOT ENCOUNTERED | NOT ENCOUNTERED | EL 160.4 | |

## BUILDING BORING RESULTS ⌖ LB-X

NOTE: BUILDING BORING RESULTS ARE FROM JAMES J PETERS VA MEDICAL CENTER SCID PROJECT, 2012

*ORIGINAL ELEVATIONS HAVE BEEN ADJUSTED –3.6 FEET (LOWERED) TO APPROXIMATE PROJECT DATUM

| TEST PIT | APPROXIMATE GROUND ELEVATION | APPROXIMATE DEPTH TO ROCK |
|---|---|---|
| TP-1 | EL 159.8 | 6' |
| TP-2 | EL 160.0 | 0.7' |
| TP-3 | EL 156.4 | 5.7' |
| TP-4 | EL 155.9 | 6' |

## GEOTECHNICAL TEST PIT RESULTS ⌖ TP-X

NOTE: TEST PITS SURVEYED BY REILLY ASSOCIATES FOR PARKING LOT REPLACEMENT AND EXPANSION PROJECT, 2018

PROJECT Veteran's Administration Project 526-079 Replacement Hospital
LOCATION Bronx, New York
HOLE NO. 1
SURF. ELEV. 165.30
DATE STARTED 7/18/73 COMPLETED 7/18/73
JOB NO. 7311
GROUND WATER Dry on completion
N= NO. OF BLOWS TO DRIVE 2" SAMPLER 6" W/140 LB. WEIGHT FALLING 30"
C= NO. OF BLOWS TO DRIVE CASING 12" W/300 LB. WEIGHT FALLING 24"
SHEET 1 OF 1
BORING MADE WITH HOLLOW STEM AUGER CASING

| DEPTH | C. | N. | SAMPLE NO. | SAMPLE DEPTH | DESCRIPTION OF MATERIAL |
|---|---|---|---|---|---|
| | | 3/3 3 | 1 | 1'0"-2'6" | TOPSOIL 1'0" |
| | | | | | Brown moist loose fine SAND, little silt 4'0" |
| 5'0" | | 5/6 8 | 2 | 5'0"-6'6" | Brown dry medium dense fine to medium SAND and fine to medium GRAVEL |
| | | | | | Top of rock 9'1" |
| 10'0" | | 25 1" | 3 | 9'0"-9'1" | Run #1, 9'1" - 14'1" Rec. 40" - 67% Weathered FORDHAM GNEISS |
| 15'0" | | | | | Bottom of boring 14'1" |
| | | | | | NOTE: Coring time in rock 3 minutes per foot; no water loss. |

PROJECT Veteran's Administration Project 526-079 Replacement Hospital
LOCATION Bronx, New York
HOLE NO. 1A
SURF. ELEV. 162.30
DATE STARTED 7/30/73 COMPLETED 7/30/73
JOB NO. 7311
GROUND WATER Dry on completion
N= NO. OF BLOWS TO DRIVE 2" SAMPLER 6" W/140 LB. WEIGHT FALLING 30"
C= NO. OF BLOWS TO DRIVE CASING 12" W/300 LB. WEIGHT FALLING 24"
SHEET 1 OF 1
BORING MADE WITH HOLLOW STEM AUGER CASING

| DEPTH | C. | N. | SAMPLE NO. | SAMPLE DEPTH | DESCRIPTION OF MATERIAL |
|---|---|---|---|---|---|
| | | 4/5 4 | 1 | 1'0"-2'6" | TOPSOIL 0'5" |
| | | | | | Brown dry loose SILT and fine SAND, trace fine to medium gravel and coal fill 4'0" |
| 5'0" | | 39-75 34 | 2 | 5'0"-5'9" | Brown dry very dense fine SAND and fine to medium GRAVEL, trace silt 8'0" |
| | | | | | Top of rock 8'0" |
| 10'0" | | 25 34 | 3 | 7'9"-8'0" | Run #1, 8'0" - 13'0" Rec. 23" - 38% Weathered FORDHAM GNEISS |
| | | | | No Rec. | |
| 15'0" | | | | | Bottom of boring 13'0" |
| | | | | | NOTE: Coring time in rock 2 minutes per foot; no water loss. |
| 20'0" | | | | | |

PROJECT Veteran's Administration Project 526-079 Replacement Hospital
LOCATION Bronx, New York
HOLE NO. 19A
SURF. ELEV. 161.60
DATE STARTED 7/23/73 COMPLETED 7/23/73
JOB NO. 7311
GROUND WATER Dry on completion
N= NO. OF BLOWS TO DRIVE 2" SAMPLER 6" W/140 LB. WEIGHT FALLING 30"
C= NO. OF BLOWS TO DRIVE CASING 12" W/300 LB. WEIGHT FALLING 24"
SHEET 1 OF 1
BORING MADE WITH HOLLOW STEM AUGER CASING

| DEPTH | C. | N. | SAMPLE NO. | SAMPLE DEPTH | DESCRIPTION OF MATERIAL |
|---|---|---|---|---|---|
| | | 4/3 5 | 1 | 0'0"-1'6" | TOPSOIL 0'8" |
| 5'0" | | | | | Brown moist loose to medium dense fine SAND, some silt and fine gravel |
| | | 6/8 16 | 2 | 5'0"-6'6" | Top of rock 7'0" |
| 10'0" | | | | | Run #1, 7'0" - 12'0" Rec. 55" - 92% Weathered FORDHAM GNEISS |
| | | | | | Bottom of boring 12'0" |
| 15'0" | | | | | NOTE: Coring time in rock 3-4 minutes per foot; no water loss. |

## TEST BORING LOGS ⌖ TB-X

NOTE:
BORING LOGS ARE FROM VETERAN'S ADMINISTRATION PROJECT 526-079, 1973.
VERTICAL DATUM MUST BE ADJUSTED APPROXIMATELY –3.6 FEET (LOWERED) TO APPROXIMATE PROJECT DATUM.

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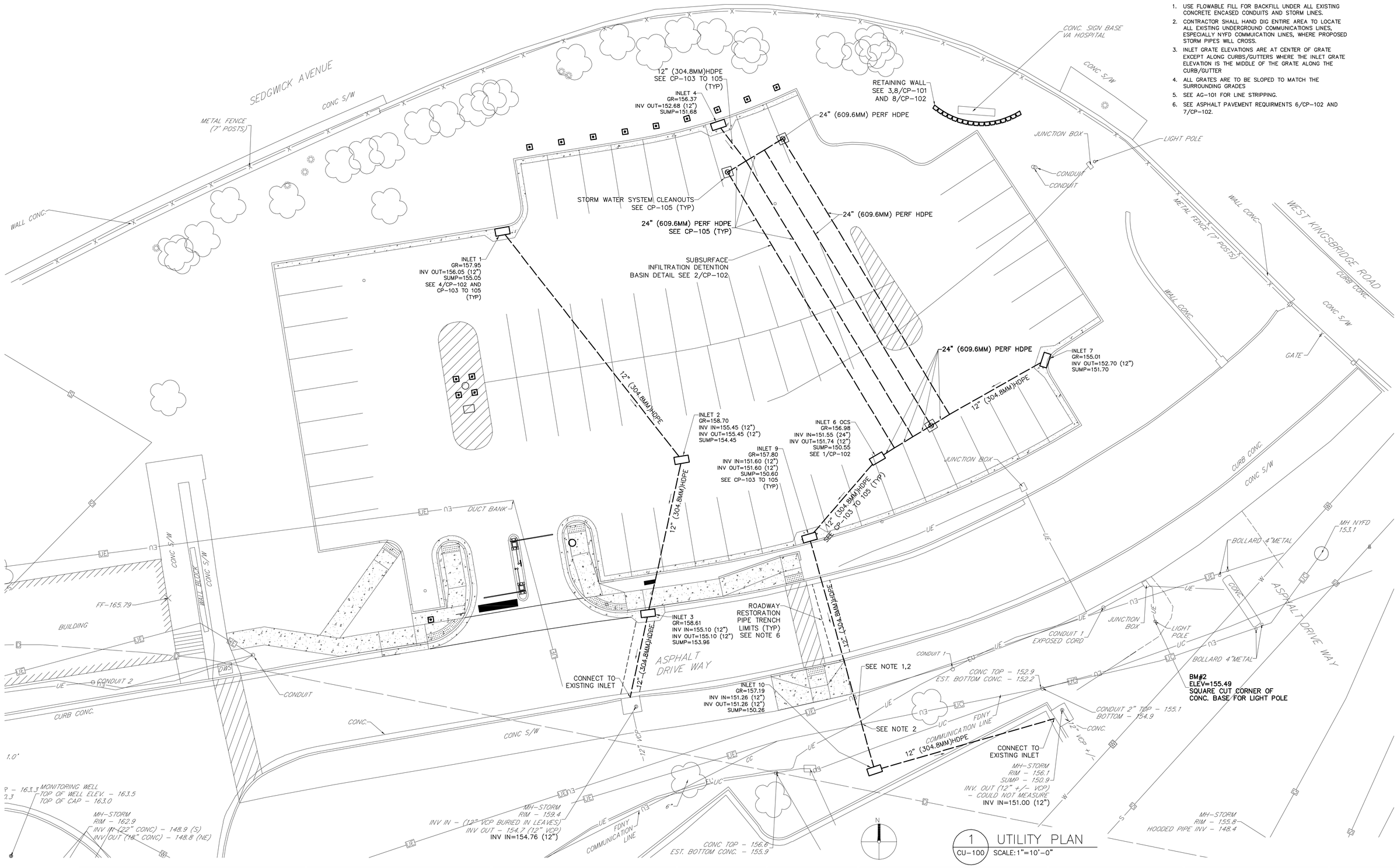
Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title: BORING AND TEST PIT PLAN
Approved: Project Director
Phase: CONSTRUCTION DOCUMENTS
Project Title: PARKING LOT REPLACEMENT AND EXPANSION
Location: 130 WEST KINGSBRIDGE ROAD, BRONX, NEW YORK 10468
Issue Date: 10/22/2019
Checked: J.S.D.
Drawn: A.S.C.
Project Number: 526-17-107
Building Number:
Drawing Number: CP-108

VA FORM 08-6231

NOTES:

1. USE FLOWABLE FILL FOR BACKFILL UNDER ALL EXISTING CONCRETE ENCASED CONDUITS AND STORM LINES.
2. CONTRACTOR SHALL HAND DIG ENTIRE AREA TO LOCATE ALL EXISTING UNDERGROUND COMMUNICATIONS LINES, ESPECIALLY NYFD COMMUICATION LINES, WHERE PROPOSED STORM PIPES WILL CROSS.
3. INLET GRATE ELEVATIONS ARE AT CENTER OF GRATE EXCEPT ALONG CURBS/GUTTERS WHERE THE INLET GRATE ELEVATION IS THE MIDDLE OF THE GRATE ALONG THE CURB/GUTTER
4. ALL GRATES ARE TO BE SLOPED TO MATCH THE SURROUNDING GRADES
5. SEE AG-101 FOR LINE STRIPPING.
6. SEE ASPHALT PAVEMENT REQUIRMENTS 6/CP-102 AND 7/CP-102.




1 UTILITY PLAN
CU-100 SCALE: 1"=10'-0"

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|---|---|---|---|
| Drawing Title: UTILITY PLAN | Phase: CONSTRUCTION DOCUMENTS | Project Title: PARKING LOT REPLACEMENT AND EXPANSION | Project Number: 526-17-107 |
| Approved: Project Director | | | Building Number: |
| | | Location: 130 WEST KINGSBRIDGE ROAD, BRONX, NEW YORK 10468 | Drawing Number: CU-100 |
| | | Issue Date: 10/22/2019 · Checked: J.S.D. · Drawn: A.S.C. | |

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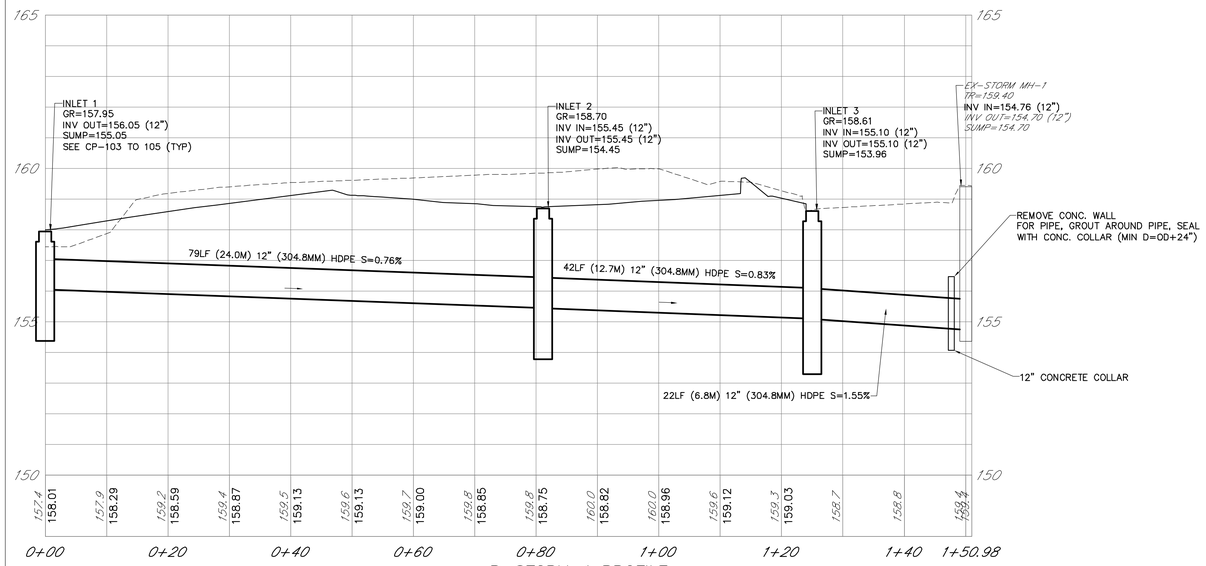


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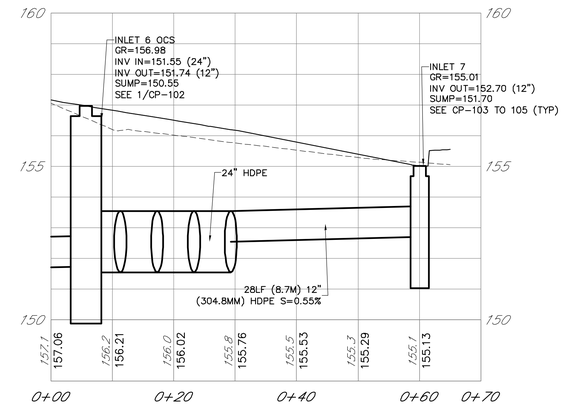


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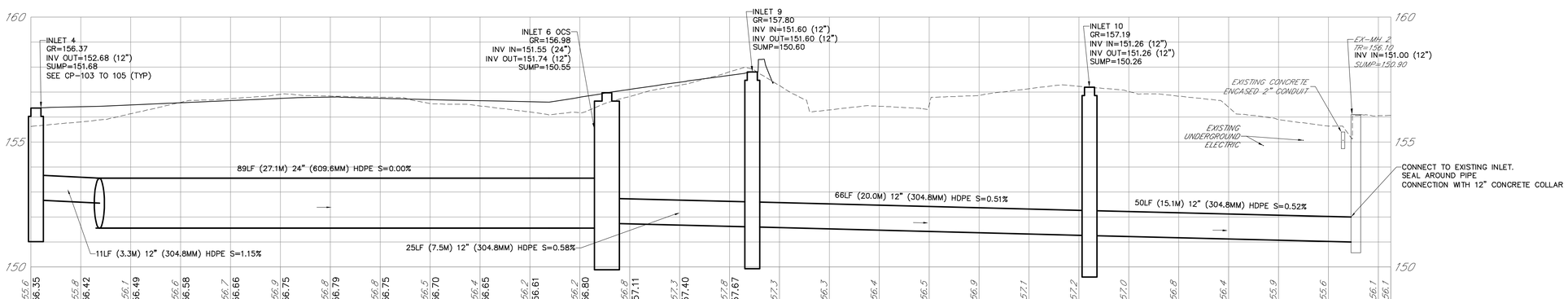


P-STORM-2 PROFILE

1 CU-101 PROPOSED STORM PROFILES

SCALE:H=1"=10'-0" V= 1"=2'

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: STORM PROFILES

Approved: Project Director

Phase: CONSTRUCTION DOCUMENTS

Project Title: PARKING LOT REPLACEMENT AND EXPANSION

Location: 130 WEST KINGSBRIDGE ROAD, BRONX, NEW YORK 10468

Issue Date: 10/22/2019

Checked: J.S.D.

Drawn: A.S.C.

Project Number: 526-17-107

Building Number:

Drawing Number: CU-101

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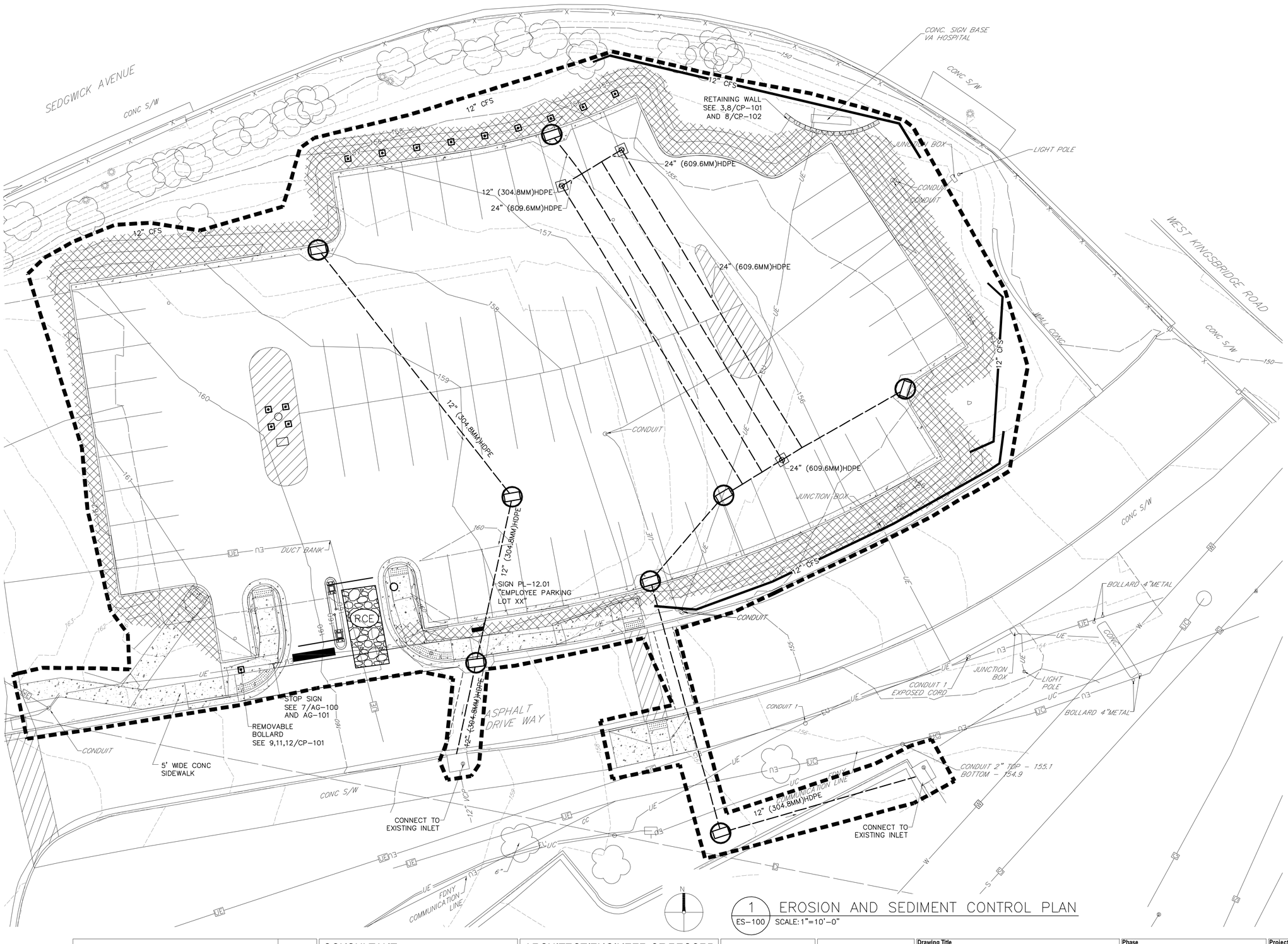


## LEGEND

- EXISTING CONTOUR MINOR
- 800 – EXISTING CONTOUR MAJOR
- 800 – PROPOSED CONTOUR MAJOR
- 801 – PROPOSED CONTOUR MINOR
- EXISTING GRANITE CURB
- PROPOSED GRANITE CURB
- G – EXISTING GAS LINE/GAS VALVE
- EXISTING FIRE HYDRANT
- W – EXISTING WATER LINE/VALVE
- S – EXISTING SANITARY LINE/ SANITARY MANHOLE
- EXISTING STORM LINE/STORM INLET
- E – EXISTING OVERHEAD ELECTRIC TELEPHONE/CABLE UTILITY POLE
- UE – EXISTING UNDERGROUND ELECTRIC/ LIGHT POLE
- UE – PROPOSED UNDERGROUND ELECTRIC/ LIGHT POLE
- PROPOSED STORM LINE/STORM INLET
- PROPERTY LINE
- PROPOSED PAVEMENT MARKING
- PROPOSED SIGN
- PROPOSED EDGE OF PAVE
- PROPOSED CONCRETE WALK
- PROPOSED LANDSCAPE RESTORATION
- X – PROPOSED CHAINLINK FENCE
- PROPOSED GUIDERAIL
- EROSION CONTROL MATTING/ HP-TRM
- XX" – COMPOST FILTER SOCK XX" DIAMETER
- LIMIT OF DISTURBANCE
- INLET WITH FILTER BAG INLET PROTECTION
- RCE – ROCK CONSTRUCTION ENTRANCE

NOTES:

1. CONTRACTOR TO INSPECT AND CLEAN AND DISPOSE OF SILT AND REPAIR ALL E&S FEATURES.
2. CONTRACTOR TO REMOVE AND DISPOSE OF TEMPORARY E&S FEATURES AFTER CONSTRUCTION, REMOVE ALL SILT. RESTORE ALL SURFACES.

1 / ES-100 EROSION AND SEDIMENT CONTROL PLAN
SCALE: 1"=10'-0"

| Revisions: | Date: |
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## CONSTRUCTION SPECIFICATIONS

1. ALL GRADED OR DISTURBED AREAS INCLUDING SLOPES SHALL BE PROTECTED DURING CLEARING AND CONSTRUCTION IN ACCORDANCE WITH THE APPROVED SEDIMENT CONTROL PLAN UNTIL THEY ARE PERMANENTLY STABILIZED.
2. ALL SEDIMENT CONTROL PRACTICES AND MEASURES SHALL BE CONSTRUCTED, APPLIED AND MAINTAINED IN ACCORDANCE WITH THE APPROVED SEDIMENT CONTROL PLAN AND THE "STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS".
3. TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED IN AMOUNT NECESSARY TO COMPLETE FINISHED GRADING OF ALL EXPOSED AREAS.
4. AREAS TO BE FILLED SHALL BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS OR OTHER OBJECTIONABLE MATERIAL.
5. AREAS WHICH ARE TO BE TOPSOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF FOUR INCHES PRIOR TO PLACEMENT OF TOPSOIL.
6. ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES AND CONDUITS, ETC. SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES.
7. ALL FILL TO BE PLACED AND COMPACTED IN LAYERS NOT TO EXCEED 9 INCHES IN THICKNESS.
8. EXCEPT FOR APPROVED LANDFILLS, FILL MATERIAL SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOD, OR OTHER FOREIGN OR OTHER OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS.
9. FROZEN MATERIALS OR SOFT, MUCKY OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED IN FILLS.
10. FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES.
11. ALL BENCHES SHALL BE KEPT FREE OF SEDIMENT DURING ALL PHASES OF DEVELOPMENT.
12. SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR SUBSURFACE DRAIN OR OTHER APPROVED METHOD.
13. ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY FOLLOWING FINISHED GRADING.
14. STOCKPILES, BORROW AREAS AND SPOIL AREAS SHALL BE SHOWN ON THE PLANS AND SHALL BE SUBJECT TO THE PROVISIONS OF THIS STANDARD AND SPECIFICATION.

ADAPTED FROM DETAILS PROVIDED BY: USDA – NRCS, NEW YORK STATE DEPARTMENT OF TRANSPORTATION, NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION, NEW YORK STATE SOIL & WATER CONSERVATION COMMITTEE

LANDGRADING SPECIFICATIONS

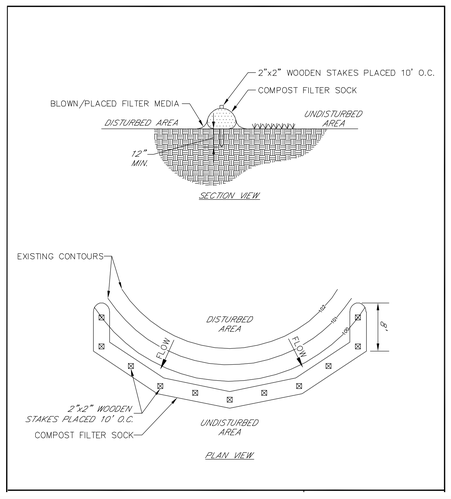



**Table 5.1 - Compost Sock Fabric Minimum Specifications Table**

| Material Type | 3 mil HDPE | 5 mil HDPE | 5 mil HDPE | Multi-Filament Polypropylene (MFPP) | Heavy Duty Multi-Filament Polypropylene (HDMFPP) |
|---|---|---|---|---|---|
| Material Characteristics | Photodegradable | Photodegradable | Biodegradable | Photodegradable | Photodegradable |
| Sock Diameters | 12" 18" | 12" 18" 24" 32" | 12" 18" 24" 32" | 12" 18" 24" 32" | 12" 18" 24" 32" |
| Mesh Opening | 3/8" | 3/8" | 3/8" | 3/8" | 1/8" |
| Tensile Strength | | 26 psi | 26 psi | 44 psi | 202 psi |
| Ultraviolet Stability % Original Strength (ASTM G-155) | 23% at 1000 hr. | 23% at 1000 hr. | | 100% at 1000 hr. | 100% at 1000 hr. |
| Minimum Functional Longevity | 6 months | 9 months | 6 months | 1 year | 2 years |

**Table 5.2 - Compost Standards Table**

| | |
|---|---|
| Organic matter content | 25% - 100% (dry weight) |
| Organic portion | Fibrous and elongated |
| pH | 6.0 – 8.0 |
| Moisture content | 30% - 60% |
| Particle size | 100% passing a 1" screen and 30 - 50% passing a 3/8" screen |
| Soluble salt concentration | 5.0 dS/m (mmhos/cm) maximum |

COMPOST FILTER SOCK

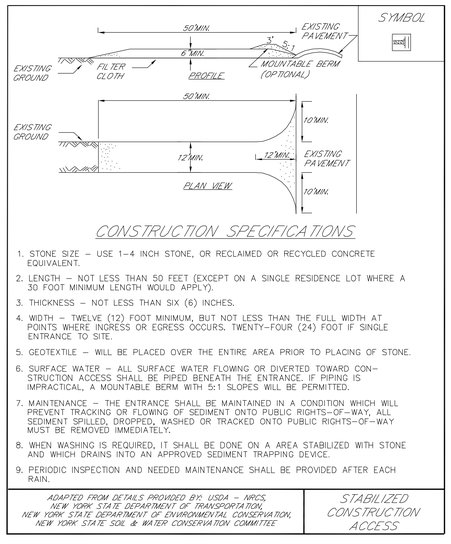
NOT TO SCALE

**Table 4.2**
**Guide to Mulch Materials, Rates, and Uses**

| Mulch Material | Quality Standards | per 1000 Sq. Ft. | per Acre | Depth of Application | Remarks |
|---|---|---|---|---|---|
| Wood chips or shavings | Air-dried. Free of chysotecinable coarse material | 500-900 lbs. | 10-20 tons | 2-7" | Used primarily around shrub and tree plantings and recreation trails to inhibit weed competition. Resistant to wind blowing. Decomposes slowly. |
| Wood fiber cellulose (partly digested wood fibers) | Made from natural wood usually with green dye and dispersing agent | 50 lbs. | 2,000 lbs. | — | Apply with hydromulcher. No tie down required. Less erosion control provided than 2 tons of hay or straw. |
| Gravel, Crushed Stone or Slag | Washed, Size 2B or 3A—1 1/2" | 9 cu. yds. | 405 cu. yds. | 3" | Excellent mulch for short slopes and around plants and ornamentals. Use 2B where subject to traffic. (Approximately 2,000 lbs./cu. yd.). Frequently used over filter fabric for better weed control. |
| Hay or Straw | Air-dried, free of undesirable seeds & coarse materials | 90-100 lbs. 2-3 bales | 2 tons (100-120 bales) | cover about 90% surface | Use small grain straw where mulch is maintained for more than three months. Subject to wind blowing unless anchored. Most commonly used mulching material. Provides the best micro-environment for germinating seeds. |
| Jute twisted yarn | Undyed, unbleached plain weave. Warp 78 ends/yd., Weft 41 ends/yd. 60-90 lbs./roll | 48" x 50 yds. or 48" x 75 yds. | — | — | Use without additional mulch. Tie down as per manufacturers specifications. Good for center line of concentrated water flow. |
| Excelsior wood fiber mats | Interlocking web of excelsior fibers with photodegradable plastic netting. | 4' x 112.5' or 8' x 112.5'. | — | — | Use without additional mulch. Excellent for seeding establishment. Anchor as per manufacturers specifications. Approximately 72 lbs./roll for excelsior with plastic on both sides. Use two sided plastic for centerline of waterways. |
| Straw or coconut fiber, or combination | Photodegradable plastic net on one or two sides | Most are 6.5 ft. x 3.5 ft. | 81 rolls | — | Designed to tolerate higher velocity water flow, centerlines of waterways. 60 sq. yds. per roll. |

MULCH APPLICATION TABLE

NOT TO SCALE




## CONSTRUCTION SPECIFICATIONS

1. STONE SIZE – USE 1–4 INCH STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH – NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
3. THICKNESS – NOT LESS THAN SIX (6) INCHES.
4. WIDTH – TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
5. GEOTEXTILE – WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. SURFACE WATER – ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ACCESS SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE – THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS–OF–WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS–OF–WAY MUST BE REMOVED IMMEDIATELY.
8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON A AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

ADAPTED FROM DETAILS PROVIDED BY: USDA – NRCS, NEW YORK STATE DEPARTMENT OF TRANSPORTATION, NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION, NEW YORK STATE SOIL & WATER CONSERVATION COMMITTEE

STABILIZED CONSTRUCTION ENTRANCE

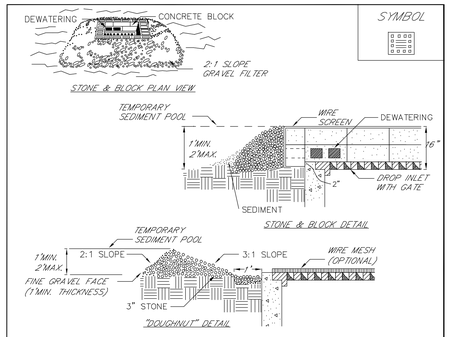
NOT TO SCALE

| General lime guidelines (at 100% ENV) | | | | |
|---|---|---|---|---|
| Initial Soil pH | Sands | Sandy Loams | Loam and Silt Loams | Silty Clay Loams |
| 4.5 | 2.5 | 6.0 | 9.5 | 13.0 |
| 4.6-4.7 | 2.5 | 6.0 | 9.0 | 12.5 |
| 4.8-4.9 | 2.5 | 5.5 | 8.5 | 12.0 |
| 5.0-5.1 | 2.0 | 5.0 | 7.5 | 10.5 |
| 5.2-5.3 | 1.5 | 4.0 | 6.5 | 8.5 |
| 5.4-5.5 | 1.0 | 3.0 | 4.0 | 6.0 |
| 5.6-5.7 | 1.0 | 2.0 | 3.0 | 4.5 |
| 5.8-5.9 | 0.7 | 1.5 | 2.5 | 3.5 |
| 6.0-6.1 | 0.6 | 1.5 | 2.0 | 3.0 |
| 6.2-6.3 | 0.4 | 1.0 | 1.5 | 2.0 |
| 6.4-6.5 | 0.3 | 0.7 | 1.0 | 1.5 |
| 6.6-6.7 | 0.2 | 0.5 | 0.7 | 1.0 |
| Lime guidelines are in tons per acre and are based on a plow depth of 8.0 inches. Correct rate if plowing to a different depth. | | | | |
| Conversion for small areas: 1 ton/acre = 2,000/43,560 ft$^2$, 46/2,000 ft$^2$ | | | | |

Note: Lime should not be applied within 50 feet of streams and wetlands.

LIME APPLICATION TABLE

NOT TO SCALE




## CONSTRUCTION SPECIFICATIONS

1. LAY ONE BLOCK ON EACH SIDE OF THE STRUCTURE ON ITS SIDE FOR DEWATERING. FOUNDATION SHALL BE 2 INCHES MINIMUM BELOW REST OF INLET AND BLOCKS SHALL BE PLACED AGAINST INLET FOR SUPPORT.
2. HARDWARE CLOTH OR 1/2" WIRE MESH SHALL BE PLACED OVER BLOCK OPENINGS TO SUPPORT STONE.
3. USE CLEAN STONE OR GRAVEL 1/2–3/4 INCH IN DIAMETER PLACED 2 INCHES BELOW TOP OF THE BLOCK ON A 2:1 SLOPE OR FLATTER.
4. FOR STONE STRUCTURES ONLY, A 1 FOOT THICK LAYER OF THE FILTER STONE WILL BE PLACED AGAINST THE 3 INCH STONE AS SHOWN ON THE DRAWINGS.

MAXIMUM DRAINAGE AREA 1 ACRE

ADAPTED FROM DETAILS PROVIDED BY: USDA – NRCS, NEW YORK STATE DEPARTMENT OF TRANSPORTATION, NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION, NEW YORK STATE SOIL & WATER CONSERVATION COMMITTEE

STONE & BLOCK DROP INLET PROTECTION

INLET PROTECTION

NOT TO SCALE

**Table 4.3**
**Mulch Anchoring Guide**

| Anchoring Method or Material | Kind of Mulch to be Anchored | How to Apply |
|---|---|---|
| 1. Peg and Twine | Hay or straw | After mulching, divide areas into blocks approximately 1 sq. yd. in size. Drive 4-6 pegs per block to within 2" to 3" of soil surface. Secure mulch to surface by stretching twine between pegs in criss-cross pattern on each block. Secure twine around each peg with 2 or more tight turns. Drive pegs flush with soil. Driving stakes into ground tightens the twine. |
| 2. Mulch netting | Hay or straw | Staple the light-weight paper, jute, wood fiber, or plastic nettings to soil surface according to manufacturer's recommendations. Should be biodegradable. Most products are not suitable for foot traffic. |
| 3. Wood cellulose fiber | Hay or straw | Apply with hydroseeder immediately after mulching. Use 500 lbs. wood fiber per acre. Some products contain an adhesive material ("tackifier"), possibly advantageous. |
| 4. Mulch anchoring tool | Hay or straw | Apply mulch and pull a mulch anchoring tool (blunt, straight discs) over mulch as near to the contour as possible. Mulch material should be "tucked" into soil surface about 3". |
| 5. Tackifier | Hay or straw | Mix and apply polymeric and gum tackifiers according to manufacturer's instructions. Avoid application during rain. A 24-hour curing period and a soil temperature higher than 45° Fahrenheit are required. |

MULCH ANCHORING GUIDE

NOT TO SCALE

**Table 4.5**
**Recreation Turfgrass Seed Mixture**

| Site - Use | Species (% by weight) | lbs/1,000 ft$^2$ (PLS) | lbs/acre (PLS) |
|---|---|---|---|
| Sunny Sites (well, moderately well, and somewhat poorly drained soils) | *Athletic fields and similar areas* | | |
| | 80% Hard fescue | 2.4-3.2 | 105-138 |
| | 20% Perennial ryegrass | 0.6-0.8 | 25-37 |
| | | 3.0-4.0 | 130-175 |
| | OR: for southern and eastern, NY 50% Hard fescue | 1.5-2.0 | 65-88 |
| | 50% perennial ryegrass | 1.5-2.0 | 65-87 |
| | | 3.0-4.0 | 130-175 |
| | OR, 100% Creeping Red Fescue | 3.4-4.6 | 150-200 |
| | *General recreation areas and lawns (Medium to high maintenance)* | | |
| | 65% Creeping red fescue | 2.0-2.6 | 85-114 |
| | 20% Perennial ryegrass | 0.6-0.8 | 26-33 |
| | 15% Fine fescue | 0.4-0.6 | 19-26 |
| | | 3.0-4.0 | 130-175 |
| | OR, 100% Creeping red fescue | 3.4-4.6 | 150-200 |
| Sunny Droughty Sites (general recreation areas and lawns, low maintenance) (somewhat excessively to excessively drained soils, excluding Long Island) | 65% Fine fescue | 2.6-3.3 | 114-143 |
| | 15% Perennial ryegrass | 0.6-0.7 | 26-33 |
| | 20% Creeping red fescue | 0.8-1.0 | 35-44 |
| | | 4.0-5.0 | 175-220 |
| | OR, 100% Creeping red fescue | 3.4-4.6 | 150-200 |
| Shady Dry Sites (well to somewhat poorly drained soils) | 65% fine fescue | 2.6-3.3 | 114-143 |
| | 15% perennial ryegrass | 0.6-0.7 | 26-33 |
| | 20% Creeping red fescue | 0.8-1.0 | 35-44 |
| | OR | 4.0-5.0 | 174-220 |
| | 80% blend of shade-tolerant Cental rye | 2.4-3.2 | 105-138 |
| | 20% perennial ryegrass | 0.6-0.8 | 25-37 |
| | OR | 3.0-4.0 | 130-175 |
| | 100% Creeping red fescue | 3.4-4.6 | 150-200 |
| Shady Wet Sites (somewhat poor to poorly drained soils) | 70% Creeping red fescue | 1.4-2.1 | 60-91 |
| | 30% blend of shade-tolerant Hard fescue | 0.6-0.9 | 25-39 |
| | OR | 2.0-3.0 | 85-130 |
| | 100% Chewings fescue | 3.4-4.6 | 150-200 |

For varieties suitable for specific locations, contact Cornell Cooperative Extension Turf Specialist.
Reference: Thom, M.C., N.W. Hummel, and A.M. Petrovic. Cornell Extension Pub. Info. Bulletin 183 Revised. HomeLawns Establishment and Maintenance. 1994.

RECREATION TURFGRASS SEED MIXTURE

NOT TO SCALE

**Table 4.4**
**Permanent Construction Area Planting Mixture Recommendations**

| Seed Mixture | Variety | Rate in lbs./acre (PLS) | Rate in lbs./ 1,000 ft$^2$ |
|---|---|---|---|
| **Mix #1** | | | |
| Creeping red fescue | Ensylva, Pennlawn, Boreal | 10 | .25 |
| Perennial ryegrass | Pennfine, Linn | 10 | .25 |
| *This mix is used extensively for shaded areas. | | | |
| **Mix #2** | | | |
| Switchgrass | Shelter, Pathfinder, Trailblazer, or Blackwell | 20 | .50 |
| *This rate is in pure live seed, this would be an excellent choice along the upland edge of a wetland to filter runoff and provide wildlife benefits. In areas where erosion may be a problem, a companion seeding of sand lovegrass should be added to provide quick cover at a rate of 2 lbs. per acre (0.05 lbs. per 1000 sq. ft.). | | | |
| **Mix #3** | | | |
| Switchgrass | Shelter, Pathfinder, Trailblazer, or Blackwell | 4 | .10 |
| Big bluestem | Niagara | 4 | .10 |
| Little bluestem | Aldous or Camper | 2 | .05 |
| Indiangrass | Rumsey | 4 | .10 |
| Coastal panicgrass | Atlantic | 2 | .05 |
| Sideoats grama | El Reno or Trailway | 2 | .05 |
| Wildflower mix | | .50 | .01 |
| *This mix has been successful on sand and gravel plantings. It is very difficult to seed without a warm season grass seeder such as a Truax seed drill. Broadcasting this seed is very difficult due to the fluffy nature of some of the seed, such as bluestems and indiangrass. | | | |
| **Mix #4** | | | |
| Switchgrass | Shelter, Pathfinder, Trailblazer, or Blackwell | 10 | .25 |
| Coastal panicgrass | Atlantic | 10 | .25 |
| *This mix is salt tolerant, a good choice along the upland edge of tidal areas and roadsides. | | | |
| **Mix #5** | | | |
| Saltmeadow cordgrass (Spartina patens) This grass is used for tidal shoreline protection and tidal marsh restoration. It is planted by vegetative stem divisions. *Cape' American beachgrass can be planted for sand dune stabilization above the saltmeadow cordgrass zone. | | | |
| **Mix #6** | | | |
| Creeping red fescue | Ensylva, Pennlawn, Boreal | 20 | .45 |
| Chewings Fescue | Common | 20 | .45 |
| Perennial ryegrass | Pennfine, Linn | 5 | .10 |
| Red Clover | Common | 10 | .45 |
| *General purpose erosion control mix. Not to be used for a turf planting or play grounds. | | | |

PERMANENT CONSTRUCTION AREA PLANTING MIXTURE RECOMMENDATIONS

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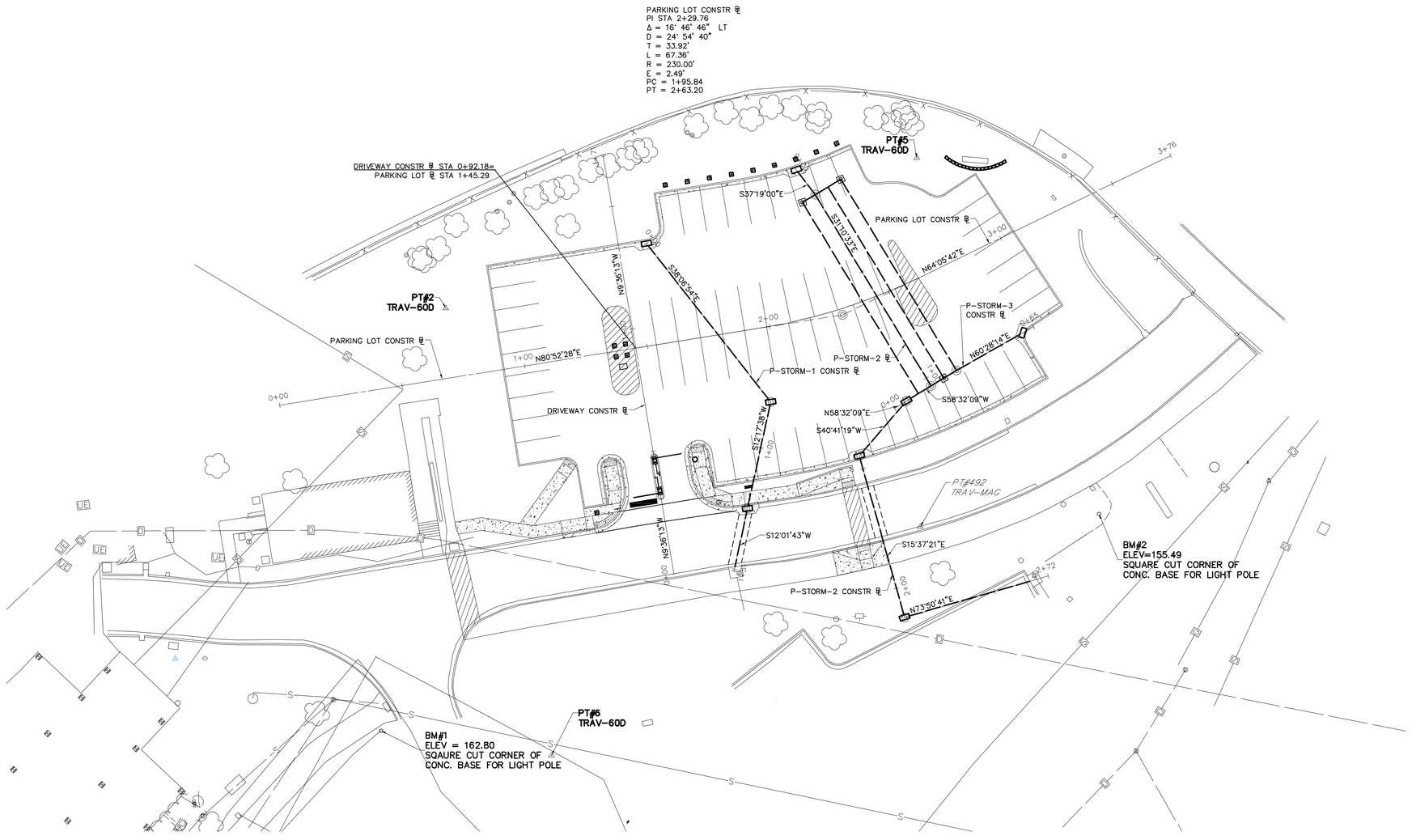
|---|---|---|---|
| Drawing Title: EROSION CONTROL PLAN NOTES AND DETAILS | Phase: CONSTRUCTION DOCUMENTS | Project Title: PARKING LOT REPLACEMENT AND EXPANSION | Project Number: 526-17-107 |
| Approved: Project Director | | Location: 130 WEST KINGSBRIDGE ROAD, BRONX, NEW YORK 10468 | Building Number: |
| | | Issue Date: 10/22/2019 · Checked: J.S.D. · Drawn: A.S.C. | Drawing Number: ES-101 |

VA FORM 08 - 6231

File Path

6/14/2019 12:29:03 PM




1 / VJ-100 UTILITY PLAN
SCALE: 1"=20'-0"

## SUMMARY OF CONTROL POINT COORDINATES

| POINT NUMBER | DESCRIPTION | COORDINATES NORTH | COORDINATES EAST |
|---|---|---|---|
| 2 | 60D NAIL | 255940.7381 | 1010646.3599 |
| 5 | 60D NAIL | 256001.2272 | 1010836.1130 |
| 6 | 60D NAIL | 255760.5287 | 1010688.9235 |
| 492 | MAG NAIL | 255852.7331 | 1010837.4815 |

NOTE: FOUR (4) PLACE COORDINATES ARE USED FOR COMPUTATIONAL PURPOSES ONLY AND DO NOT IMPLY A PRECISION BEYOND TWO (2) PLACES.

## SUMMARY OF PROJECT COORDINATES

| RTE | STATION | POINT | COORDINATES NORTH | COORDINATES EAST | BEARING |
|---|---|---|---|---|---|
| DRIVEWAY CONSTR ℄ | 0+00.00 | POB | 255833.7610 | 1010738.2341 | N 9°36'13" W |
| | 1+71.22 | POE | 256002.5812 | 1010709.6689 | |
| PARKING LOT CONSTR ℄ | 0+00.00 | POB | 255901.6104 | 1010579.4012 | N 80°52'28" E |
| | 1+95.84 | PC | 255932.6703 | 1010772.7646 | N 80°52'28" E |
| | 2+29.76 | PI | 255938.0502 | 1010806.2568 | N 64°05'42" E |
| | 2+63.20 | PT | 255952.8698 | 1010836.7698 | N 64°05'42" E |
| | 3+76.11 | POE | 256002.1977 | 1010938.3340 | |
| P-STORM-1 CONSTR ℄ | 0+00.00 | POB | 255966.8172 | 1010727.1628 | S 38°06'54" E |
| | 0+81.11 | PI | 255903.0016 | 1010777.2274 | S 12°17'38" W |
| | 1+25.03 | PI | 255860.0889 | 1010767.8758 | S 12°01'43" W |
| | 1+50.98 | POE | 255834.7058 | 1010762.4672 | |
| P-STORM-2 CONSTR ℄ | 0+00.00 | POB | 255997.3982 | 1010786.8680 | S 37°19'00" E |
| | 0+13.74 | PI | 255986.4668 | 1010795.2005 | S 31°10'33" E |
| | 1+03.81 | PI | 255909.4126 | 1010841.8216 | S 58°32'09" W |
| | 1+15.42 | PI | 255903.3490 | 1010831.9127 | S 40°41'19" W |
| | 1+44.54 | PI | 255881.2701 | 1010812.9296 | S 15°37'21" E |
| | 2+12.20 | PI | 255816.1103 | 1010831.1500 | N 73°50'41" E |
| | 2+72.48 | POE | 255832.8839 | 1010889.0540 | |
| P-STORM-3 CONSTR ℄ | 0+00.00 | POB | 255900.3973 | 1010827.0891 | N 58°32'09" E |
| | 0+29.27 | PI | 255915.6763 | 1010852.0573 | N 60°28'14" E |
| | 0+65.00 | POE | 255933.2854 | 1010883.1441 | |

NOTE: FOUR (4) PLACE COORDINATES ARE USED FOR COMPUTATIONAL PURPOSES ONLY AND DO NOT IMPLY A PRECISION BEYOND TWO (2) PLACES.

| Revisions: | Date: |
|---|---|

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: HORIZONTAL CONTROL PLAN

Approved: Project Director

Phase: CONSTRUCTION DOCUMENTS

Project Title: PARKING LOT REPLACEMENT AND EXPANSION

Location: 130 WEST KINGSBRIDGE ROAD, BRONX, NEW YORK 10468

Issue Date: 10/22/2019

Checked: J.S.D.

Drawn: A.S.C.

Project Number: 526-17-107

Building Number:

Drawing Number: VJ-100

VA FORM 08-6231

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File Path:

## Colors | Design Elements

For exterior signs use the chart at right to select a background color and stripe color.

The paint colors listed are acrylic polyurethane paint systems manufactured by the following two companies. These are commonly used in the sign industry.

Matthews Paint
760 Pittsburg Drive
Delaware, OH 43015
www.matthewspaint.com

Akzo Nobel
5555 Spaulding Drive
Norcross, GA 30092
www.coatings.akzonobel.com

**Note:** Always obtain color samples from the paint company. Colors shown are for representational purposes only. The actual paint colors may vary significantly from the corresponding swatches indicated in this document. Colors will appear differently when viewed on different computer monitors and/or printed from different printers. For a true color sample, it is best to obtain an actual paint sample of the desired color.

All traffic sign faces should use the prescribed colors as listed in the Manual for Uniform Traffic Control Devices.

All OSHA Safety Colors are from well ANSI specification Z53.1-OSHA.

### Exterior Sign Background Colors

| Color Ref # | Color Description | Text Color | Matthews # | Azko Nobel # |
|---|---|---|---|---|
| B1 | Drake | White | MP05732 | SIGNM05732 |
| B2 | Wells Fargo Black | White | MP26309 | SIGNM26309 |
| B3 | Lime Peel | White | MP12444 | SIGNM12444 |
| B4 | Marinated Olive | White | MP15975 | SIGNM15975 |
| B5 | Bear Creek | White | MP07050 | SIGNM07050 |
| B6 | Kaffe Ton | White | MP03290 | SIGNM03290 |
| B7 | Indian Throne Blue | White | MP10261 | SIGNM10261 |
| B8 | Djibouti Flag Blue | White | MP10273 | SIGNM10273 |
| B9 | Mudstone | White | MP00547 | SIGNM00547 |
| B10 | Brown Country | White | MP04991 | SIGNM04991 |
| B11 | Blue Nexus | White | MP05840 | SIGNM05840 |
| B13 | Claret Jug | White | MP10658 | SIGNM10658 |
| B14 | Asgard Wall | White | MP05480 | SIGNM05480 |
| B16 | Handicapped Blue | White | MP26511 | SIGNM26511 |
| B17 | Red (OSHA) | White | MP09251 | SIGNM09251 |
| B18 | New VA Blue | White | MP09829 | SIGNM09144 |
| B19 | Yellow (OSHA) | Black | MP09144 | SIGNM09829 |
| B20 | White | Black, Red, Purple | MP32071 | SIGNM32071 |

B19 - White can be paint, white opaque vinyl application or translucent white vinyl application for illuminated signs

### Additional Colors for Trims, Accents, Posts & Brackets

| | | | |
|---|---|---|---|
| A1 | Dark Bronze Anodized | A4 | Polished Aluminum |
| A2 | Black | A5 | Satin Aluminum |
| A3 | Clear Anodized Aluminum | | |

12/2012 rev 9/1/2014 Page 1-1-10

1 AG-100 EXTERIOR SIGN BACKGROUND COLORS
SCALE: NOT TO SCALE

## Colors | Design Elements

For parking garage signs, vinyl colors will be applied to either white or one of the other paint colors listed in the chart at right. The colors and their respective numbers listed in the chart.

The paint colors listed are acrylic polyurethane paint systems manufactured by the following two companies:

Matthews Paint
760 Pittsburg Drive
Delaware, OH 43015
www.matthewspaint.com

Akzo Nobel
5555 Spaulding Drive
Norcross, GA 30092
www.coatings.akzonobel.com

The vinyl colors listed are premium high performance vinyls manufactured by the following two companies:

Avery Dennison Graphics and Reflective Products Division
250 Chester Street, Building 5
Painesville, Ohio 44077

3M Graphics Market Center
3M Center, Bld 200-2-2-E-04
St. Paul, MN 55144

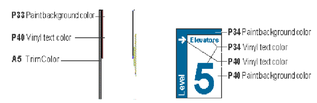
**Note:** Always obtain color samples from the paint company. Colors shown are for representational purposes only. The actual paint colors may vary significantly from the corresponding swatches indicated in this document. Colors will appear differently when viewed on different computer monitors and/or printed from different printers. For a true color sample, it is best to obtain an actual paint sample of the desired color.

### Parking Structure & Parking Lot Sign Colors

| | | Paint Colors | | Vinyl Text Colors | |
|---|---|---|---|---|---|
| Color Ref # | Color Description | Matthews Paint # | Azko Nobel # | 3M # | Avery # |
| B30 | Purple Print | MP02112 | SIGNM02112 | Purple 7725-48 | Lavender A9475-0 |
| B31 | Gravity Tractor | MP10844 | SIGNM10844 | Tomato Red 7725-13 | Tomato Red A9035-0 |
| B32 | Wells Fargo Black | MP26309 | SIGNM26309 | Black 7725-22 | Black A9090-0 |
| B33 | Modena Mud | MP00607 | SIGNM00607 | Saddle Brown 7725-139 | Cocoa A9278-0 |
| B34 | Sailboat Blue | MP02160 | SIGNM02160 | Vivid Blue 7725-17 | Vivid Blue A9570-0 |
| B35 | Apple Green | MP13427 | SIGNM13427 | Apple Green 7725-196 | Apple Green A9660-0 |
| B36 | Antartica Orange | MP01229 | SIGNM01229 | Light Orange 7725-64 | Orange A9160-0 |
| B38 | Aqua Riva | MP14879 | SIGNM14879 | Teal 7725-96 | Real Teal A9615-0 |
| B39 | Rose Essence | MP15170 | SIGNM15170 | Magenta 7725-193 | Magenta A9411-0 |
| B40 | White Wonder | MP32071 | SIGNM32071 | White 7725-10 | White A9005-0 |
| B41 | Shell Oil | MP05685 | SIGNM05685 | Sunflower 7725-25 | Med. Yellow A9130-0 |

### Additional Colors for Trims, Accents, Posts & Brackets

| | | | |
|---|---|---|---|
| A1 | Dark Bronze Anodized | A4 | Polished Aluminum |
| A2 | Black | A5 | Satin Aluminum |
| A3 | Clear Anodized Aluminum | | |




12/2012 Page 1-1-11

2 AG-100 PARKING STRUCTURE & PARKING LOT SIGN COLORS
SCALE: NOT TO SCALE

## PL-12.01 | Parking Lot Signs

### Post and Panel Informational

**Size**
Sign Face: 914 mm H x 610 mm W (3'0" H x 2'0" W)

Overall Sign Height: 1982 mm (6'6")

**Description**
Large, non-illuminated post and panel parking lot identification sign. This sign type is for identifying parking lots to drivers circulating on a roadway system.

**Message Configuration**
(Refer to message layout drawing for dimensions.)

Message Layout A is for identifying visitor parking lots.

Message Layout B is to identify the parking lot and label the lot with a number or letter.

**Graphic Process**
Surface applied reflective vinyl

**Colors**
Text: white
Background: refer to color chart
Post: refer to color chart

**Recommendations**
Position sign so drivers have a clear, unobstructed view of the sign.

Place signs in a highly visible location adjacent to the driveway entrance to a parking lot.

Message Layout A

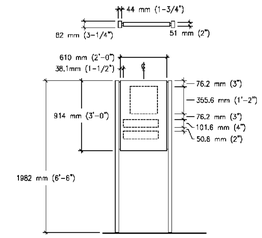
Message Layout B

12/2012 Page 5-5-1

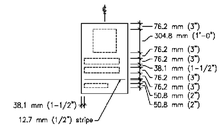
3 AG-100 PARKING LOT SIGNS
SCALE: NOT TO SCALE

## PL-12.01 | Parking Lot Signs

### Post and Panel Informational




Message Layout A



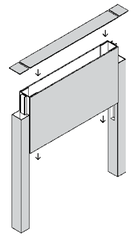

Message Layout B

12/2012 Page 5-5-2

4 AG-100 PARKING LOT SIGNS
SCALE: NOT TO SCALE

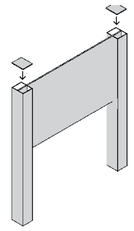
## Construction | Exterior Signs

**Detail 19**
Basic aluminum post and panel sign.



**Detail 20**
The simplest form of a post and panel sign.

While this basic sign is functional and inexpensive, it is critical the the sign face be a thick aluminum panel that will bend or twist.



12/2012 Page 5-9-11

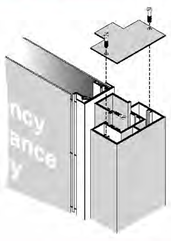
5 AG-100 EXTERIOR SIGNS
SCALE: NOT TO SCALE

## Construction | Exterior Signs

**Detail 13**
Non-Illuminated Post & Panel Sign

This sign is constructed with a non-illuminated sign cabinet mounted to extruded aluminum posts with an adjustable reveal between the posts and the cabinet.

The sign cabinet extrusion should have the capability to hold the sign faces and allow for the removal and replacement of faces without total sign disassembly or abandonment of the sign.

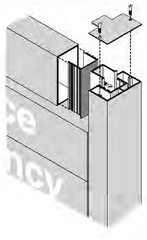


**Detail 14**
Non-Illuminated Post & Stacking Bar Sign

This sign is constructed with a series of aluminum tubes mounted to extruded aluminum posts with an adjustable reveal between the posts and the stacking tubes.

Tubes are to be flush and touching with no gaps between them.

Sign is constructed in a manner that will allow the removal or addition of faces at a future time.

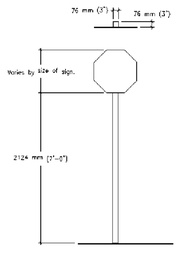


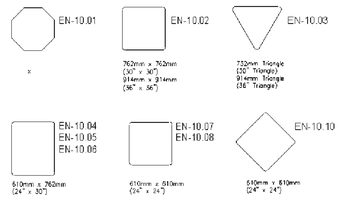
12/2012 Page 4-9-8

6 AG-100 EXTERIOR SIGNS
SCALE: NOT TO SCALE

## EN-10 | Exterior Signs

### Traffic Regulatory Signs




12/2012 Page 4-7-54

7 AG-100 TRAFFIC REGULATORY SIGN DETAIL
SCALE: NOT TO SCALE

## EN-10 | Exterior Signs

### Traffic Regulatory Signs

**Size**
EN-10.01: Stop (R1-1): 24", 30", 36"
EN-10.02: Do Not Enter (R5-1): 30", 36"
EN-10.03: Yield (R1-2): 30", 36"
EN-10.04: Speed Limit (R2-5)
EN-10.05: Keep Right (R4-7A)
EN-10.06: One Way (R6-2L, R6-2R)
EN-10.07: No Right/Left Turn (R3-1R, R3-3L)
EN-10.08: No U Turn (R3-4)
EN-10.09: Pedestrian Crossing (W11-2A)

**Description**
Traffic regulatory signs

**Sign Use & Application**
The "Manual on Uniform Traffic Control Devices for Streets and Highways" has been adopted as the standard for all Regulatory and Warning Signs used on the Department of Veterans Affairs roadways for vehicular traffic.

**Message Configuration**
(Refer to message layout drawing for dimensions)

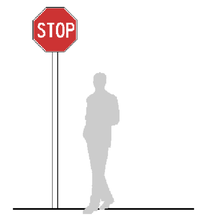
Text, text size, text position and color must conform with the Manual on Uniform Traffic Control Devices (MUTCD)

**Colors**
Text & Background: "MUTCD" standard colors;
Post: Refer to color chart

**Recommendations**
Display the most commonly used signs as indicated. If other Traffic Regulatory and/or Warning Signs are need, refer to MUTCD.

Position sign so drivers have a clear, unobstructed view of the sign.

It should be noted that the decision to use a particular traffic control device at a specific location should be made on the basis of a standard traffic engineering study of the location. Sign size should be based on traffic conditions. Where these conditions are the same, all signs of a similar type should be the same size.



12/2012 Page 4-7-53

8 AG-100 TRAFFIC REGULATORY SIGN DETAIL
SCALE: NOT TO SCALE

NOTE:

1. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR ALL SIGNAGE FOR VA APPROVAL. VA MAY ALTER SIGNAGE AT TIME OF SUBMITTAL

| Revisions: | Date: |
|---|---|
| | |

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

| Drawing Title | Phase | Project Title | Project Number |
|---|---|---|---|
| SIGN DETAILS | CONSTRUCTION DOCUMENT | PARKING LOT REPLACEMENT AND EXPANSION | 526-17-107 |
| Approved: Project Director | | Location: 130 WEST KINGSBRIDGE ROAD, BRONX, NEW YORK 10468 | Building Number |
| | | Issue Date: 10/22/2019 · Checked: T.J.S. · Drawn: B.V.N. | Drawing Number: AG-100 |

VA FORM 08 - 6231

File Path

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## SIGNAGE SCHEDULE

| SIGN NO. | NUMBER OF SIGNS | BACKGROUND COLOR | TEXT/SYMBOL COLOR | ACCENT COLOR | SIZE (W X H) (INCHES) | NOTES |
|---|---|---|---|---|---|---|
| PL–12.01 | 1 | BLUE | WHITE | N/A | 24 x 36 | "P CIRCLE [PARKING SYMBOL]" "EMPLOYEE PARKING LOT XX" |
| "EN–10.01 STOP" | 1 | ACCORDING TO MUTCD | ACCORDING TO MUTCD | N/A | 30 | "TRAFFIC REGULATORY R1–1 "STOP" |

## LINE STRIPING SCHEDULE

| LINE LOCATION | DESCRIPTION | LINE COLOR | LINE WIDTH | BACKROUND | NOTES |
|---|---|---|---|---|---|
| PARKING SPACES | BORDER LINES | WHITE | 4 INCH | N/A | N/A |
| PARKING ISLAND | BORDER LINES | WHITE | 4 INCH | N/A | |
| | ANGLED STRIPING | WHITE | 4 INCH | N/A | 45 DEGREES; 24 INCHES O.C. |
| AT STOP SIGN | STOP BAR | WHITE | 24 INCH | N/A | THERMOPLASTIC |

## GENERAL NOTE:

1. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL SIGNS. THE CONTRACTOR SHALL ADJUST WORDING OF THE SIGNS AS PER VA DIRECTION AT NO ADDITIONAL COST TO THE VA.
2. CONTRACTOR TO DIG TEST PIT FOR POSTS. SHIFT FENCE POST AS REQUIRED TO AVOID CONDUITS.
3. COORDINATE POSTS TO AVOID EXISTING AND PROPOSED CONDUIT.

Revisions: Date:

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: SIGN SCHEDULES

Approved: Project Director

Phase: CONSTRUCTION DOCUMENT

Project Title: PARKING LOT REPLACEMENT AND EXPANSION

Location: 130 WEST KINGSBRIDGE ROAD, BRONX, NEW YORK 10468

Issue Date: 10/22/2019

Checked: T.J.S.

Drawn: B.V.N.

Project Number: 526-17-107

Building Number:

Drawing Number: AG-101

VA FORM 08 - 6231

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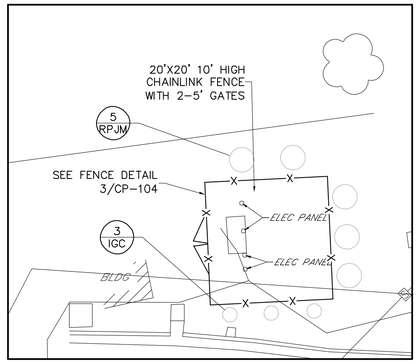
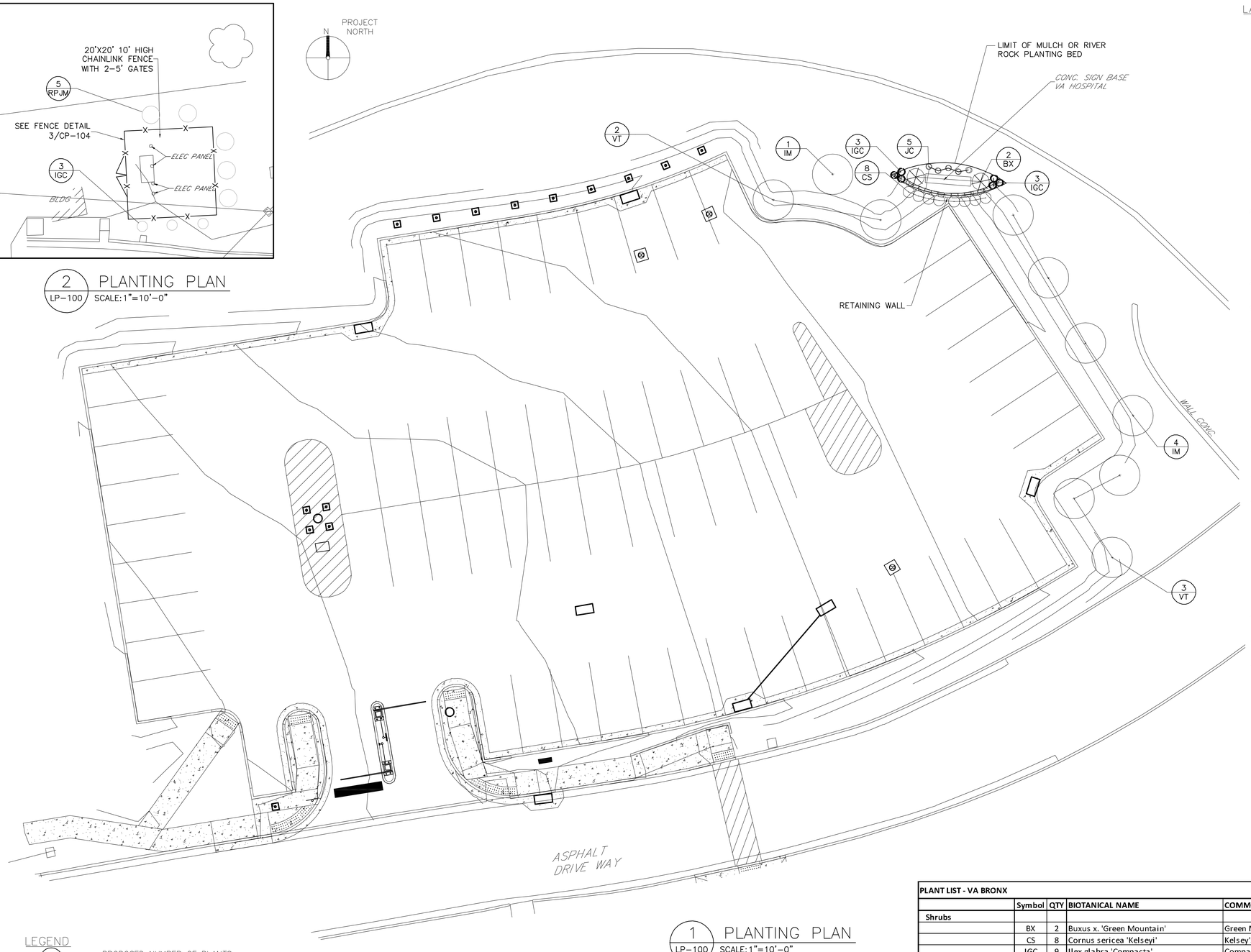
File Path




2 LP-100 PLANTING PLAN
SCALE: 1"=10'-0"



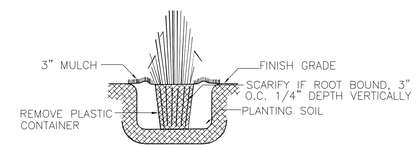

1 LP-100 PLANTING PLAN
SCALE: 1"=10'-0"

LEGEND

X / YZ — PROPOSED NUMBER OF PLANTS
PLANT SYMBOL
PROPOSED DECIDUOUS TREE / STREET TREE

## LANDSCAPE NOTES

1. ALL DISTURBED OR DAMAGED AREAS SHALL BE REPAIRED AND REFINISHED WITH MATERIALS TO MATCH EXISTING ADJACENT SURFACES.
2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS AT THE SITE BEFORE PROCEEDING WITH EACH PHASE OF WORK. LOCATIONS OF EXISTING AERIAL OR SUB-SURFACE UTILITY LINES INDICATED ARE APPROXIMATE AND NEITHER THE OWNER NOR THE ENGINEER GUARANTEE THE ACCURACY OF COMPLETENESS OF THESE LOCATIONS. IF THERE ARE ANY CONFLICTS DUE TO THE EXISTING OR AS-BUILT CONDITIONS THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE FOR FIELD ADJUSTMENT APPROVAL.
3. ALL PLANT MATERIAL SHALL HAVE A NORMAL HABIT OF GROWTH, AND SHALL BE SOUND, HEALTH, VIGOROUS AND FREE OF DISEASE, INSECTS, INSECT EGGS AND LARVAE.
4. ALL PLANTING SHALL BE PERFORMED IN CONFORMANCE WITH GOOD NURSERY AND LANDSCAPE PRACTICES AND TO OTHER STANDARDS THAT ARE ESTABLISHED BY THE CITY.
5. REQUIREMENTS FOR MEASUREMENT, BRANCHING, GRADING, QUALITY AND BURLAPPING OF ALL SHRUBBERY SHALL FOLLOW THE CODE OF STANDARDS RECOMMENDED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC. IN THE AMERICAN STANDARD NURSERY STOCK, ANSIZ60, 1-1990, AS AMENDED.
6. ALL DISTURBED AREAS NOT LANDSCAPED, PAVED OR BUILT UPON SHALL BE SEEDED, FERTILIZED AND MULCHED IN ACCORDANCE WITH SEEDING MIX AS OUTLINED ON THE DETAIL SHEET UNLESS OTHERWISE NOTED. REFER TO SEEDING SCHEDULE AND EROSION AND SEDIMENTATION CONTROL PLAN FOR OTHER REQUIREMENTS.
7. DECIDUOUS TREES THAT OVERHANG PEDESTRIAN OR VEHICULAR ROUTES SHALL BE MAINTAINED TO A HEIGHT OF 8' FREE OF BRANCHES AND FOLIAGE.
8. CONTRACTOR TO PROVIDE CLEANUP, PROTECTION AND MAINTENANCE OF LANDSCAPED AREA UNTIL OWNER INSPECTION AND ACCEPTANCE.
9. QUANTITIES SHOWN ON THE PLAN SHALL GOVERN IF TOTALS DO NOT AGREE WITH PLANTING SCHEDULE QUANTITIES.
10. SHURBS AND GRASSED AREAS PLANTED BY CONTRACTOR ("LANDSCAPING") SHALL BE MAINTAINED AND WARRANTED TO BE LIVING AND IN HEALTHY CONDITION FOR AT LEAST 12 MONTHS. CONTRACTOR TO TAKE ALL MEASURES TO CARE FOR AND MAINTAIN LANDSCAPING TO THE END OF THE WARRANTY PERIOD. WORK SHALL INCLUDED WATERING, FERTILIZING, PRUNING, STAKING, CUTTING AND ALL OTHER REQUIRED MEASURES. CONTRACTOR SHALL VISIT SITE A MINIMUM OF 2 TIMES PER MONTH TO INSPECT AND MAINTAIN SHRUBS AND GRASSED AREAS. CONTRACTOR SHALL COME TO SITE MORE OFTEN IF REQUIRED TO MAINTAIN LANDSCAPING. CONTRACTOR SHALL RESPOND TO VA REQUEST FOR SITE VISIT WITHIN 2 DAYS. CONTRACTOR TO REPLACE ALL LANDSCAPING WHICH IS NOT IN EXCELLENT CONDITION.
11. THE CONTRACTOR SHALL NOT UNDER ANY CIRCUMSTANCES DISCHARGE ANY SOIL, FILL OR DEBRIS INTO ANY PART OF THE WETLANDS THAT ARE NOT BEING DISTURBED BY CONSTRUCTION.
12. THE CONTRACTOR SHALL PROVIDE ONLY THOSE PLANT SPECIES IDENTIFIED ON THE LANDSCAPE PLAN. THE DESIGNER SHALL BE CONSULTED IF SUBSTITUTIONS ARE NECESSARY.
13. THE PLANTING SHALL BE DONE BY HAND AND THE APPROPRIATE TIME OF YEAR FOR THE MATERIAL.
14. NURSERY STOCK SHALL MEET THE FOLLOWING REQUIREMENTS:
    a) GROWN IN A CERTIFIED NURSERY FOR A PERIOD OF AT LEAST TWO FULL GROWING SEASONS
    b) FREE FROM MECHANICAL INJURIES, CUTBACK LEADERS, BROKEN BRANCHES, DECAY AND OTHER DEFECTS
    c) FREE FROM DISEASE AND INJURIOUS INSECTS
    d) TYPICAL OF SPECIES OR VARIETY INDICATED
    e) EACH BUNDLE OR EACH PLANT IF NOT BUNDLED, SHALL BE LABELED WITH THE PLANT COMMON NAME AND SIZE
16. ALL PLANT MATERIALS DELIVERED TO THE SITE SHALL BE PLANTED WITHIN 24 HOURS UNLESS OTHERWISE APPROVED.
17. WHILE AWAITING PLANTING, THE PLANT MATERIAL SHALL BE STORED IN THE SHADE AND PROTECTED FROM WEATHER UNLESS OTHERWISE INDICATED.
18. THE CONTRACTOR SHALL INSPECT PLANTS ON A WEEKLY BASIS AND SHALL PERFORM MAINTENANCE OPERATIONS INCLUDING WATERING, PRUNING, SPRAYING, AND REPLACEMENT OF IMPAIRED OR DEAD PLANTS FOR A ONE YEAR PERIOD.




SHRUB DETAIL
NOT TO SCALE

| PLANT LIST - VA BRONX | | | | | | | |
|---|---|---|---|---|---|---|---|
| | Symbol | QTY | BIOTANICAL NAME | COMMON NAME | SIZE | Dia at Maturity | COMMENTS |
| Shrubs | | | | | | | |
| | BX | 2 | Buxus x. 'Green Mountain' | Green Mountain Boxwood | 3-4' | 4' | Container |
| | CS | 8 | Cornus sericea 'Kelseyi' | Kelsey's Dwarf Red-Osier Dogwood | No. 2 Cont. | 2' | Container |
| | IGC | 9 | Ilex glabra 'Compacta' | Compact Inkberry Holly | No. 2 Cont. | 3' | Container |
| | IM | 5 | Ilex x. meserveae 'Blue Prince/Princess' | Blue Prince/Princess Holly | 36-42" | 8' | Container, plant 4 females and one male |
| | JC | 5 | Juniperus conferta 'Blue Pacific' | Blue Pacific Juniper | No. 2 Cont. | 6' | Container |
| | RPJM | 5 | Rhododendron x. 'PJM' | PJM Rhododendron | 30-36" | 5' | Container |
| | VT | 5 | Viburnum trilobum 'Compactum' | Compact Cranberry Bush Viburnum | 30-36" | 6' | Container |

TREE SCHEDULE

| Revisions: | Date: |
|---|---|

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: PLANTING PLAN AND DETAILS

Approved: Project Director

Phase: CONSTRUCTION DOCUMENTS

Project Title: PARKING LOT REPLACEMENT AND EXPANSION

Location: 130 WEST KINGSBRIDGE ROAD, BRONX, NEW YORK 10468

Issue Date: 10/22/2019 | Checked: J.S.D. | Drawn: A.S.C.

Project Number: 526-17-107

Building Number:

Drawing Number: LP-100

VA FORM 08-6231

File Path:

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## ABBREVIATIONS

| | |
|---|---|
| AMP/A | AMPERE |
| AC. | ALTERNATING CURRENT |
| A/C. | AIR CONDITION |
| AFF | ABOVE FINISHED FLOOR |
| AFG | ABOVE FINISHED GRADE |
| A.I.C. | AMPERES INTERRUPTING CAPACITY |
| AC. | ALUMINUM |
| ARCH. | ARCHITECTURAL |
| A.R.F. | ABOVE RAISED FLOOR |
| ASY. | ASYMMETRICAL |
| A.T.C. | AUTOMATIC TEMPERATURE CONTROL |
| A.T.S. | AUTOMATIC TRANSFER SWITCH |
| AUX. | AUXILIARY |
| B.F.C. | BELOW FINISHED CEILING |
| BLDG. | BUILDING |
| BKR. | BREAKER |
| BSMT. | BASEMENT |
| .C. | CENTIGRADE DEGREES |
| CLG. | CEILING |
| CKT. | CIRCUIT |
| CB | CIRCUIT BREAKER |
| CW | CLOCKWISE |
| COL. | COLUMN |
| CONC. | CONCRETE |
| CCTV | CLOSED CIRCUIT TELEVISION |
| C. | CONDUIT |
| CONDR. | CONDUCTOR |
| CU. FT. | CUBIC FEET |
| CONTR. | CONTRACTOR |
| CU. | COPPER |
| CONST. | CONSTRUCTION |
| COAX. | COAXIAL |
| COORD. | COORDINATE |
| CONT. | CONTINUATION |
| COR | CONTRACTING OFFICER'S REPRESENTATIVE |
| C.T. | CURRENT TRANSFORMER |
| DIA. | DIAMETER |
| DISC. | DISCONNECT SWITCH |
| DIV. | DIVISION |
| DN. | DOWN |
| EA. | EACH |
| E.F. | EXHAUST FAN |
| ELEC. CL. | ELECTRICAL CLOSET |
| ELEC. | ELECTRICAL |
| E.C. | ELECTRICAL CONTRACTOR |
| ELEV/EL. | ELEVATION/ELEVATOR |
| E.M.T. | ELECTRICAL METALLIC TUBING |
| ENT. | ENTRANCE |
| ENCL. | ENCLOSURE |
| EQ. | EQUAL |
| EQUIP. | EQUIPMENT |
| E.W. | EACH WAY |
| EXT. | EXTERNAL/EXTERIOR |
| F.A. | FIRE ALARM |
| .F. | FAHRENHEIT DEGREES |
| FC | FOOTCANDLE |
| FT. | FEET |
| F.E. | FIRE EXTINGUISHER |
| FDN. | FOUNDATION |
| FIN. | FINISH/FINISHED |
| FIXT. | FIXTURE |
| FLEX. | FLEXIBLE |
| FL. | FLOOR |
| FLA | FULL LOAD AMPERES |
| FLUOR. | FLUORESCENT |

| | |
|---|---|
| GA. | GAGE/GAUGE |
| GALV. | GALVANIZED |
| G.C. | GENERAL CONTRACTOR |
| GEN. | GENERATOR |
| GND. | GROUND |
| G.F.I./G.F.C.I. | GROUND FAULT INTERRUPTER |
| G.R.S.C. | GALVANIZED RIGID STEEL CONDUIT |
| HT. | HEIGHT |
| H.I.I. | HIGH INTENSITY DISCHARGE |
| HORIZ. | HORIZONTAL |
| H.O.A. | HAND OFF AUTO |
| HP. | HORSEPOWER |
| H.P.S. | HIGH PRESSURE SODIUM |
| HZ. | HERTZ |
| ID | IDENTIFICATION |
| INC. | INCANDESCENT |
| IMC | INTERMEDIATE CONDUIT |
| ISOL. | ISOLATED |
| INSUL. | INSULATION/INSULATED |
| JB | JUNCTION BOX |
| KHZ | KILOHERTZ |
| KW | KILOWATT |
| KWH | KILOWATT HOUR |
| KVA | KILOVOLT–AMPERE |
| KVAR | KILOVAR |
| KV | KILOVOLT |
| LAN | LOCAL AREA NETWORK |
| LG. | LENGTH |
| LF | LINEAR FEET |
| LT | LIGHT |
| LTG | LIGHTING |
| LRA | LOCKED ROTOR AMPERES |
| LG | LONG |
| MCC | MOTOR CONTROL CENTER |
| M.C. | MECHANICAL CONTRACTOR |
| M.C.B. | MAIN CIRCUIT BREAKER |
| M/C | MULTI–CONDUCTOR |
| MDS | MAIN DISTRIBUTION SWITCHBOARD |
| MDP | MAIN DISTRIBUTION PANEL |
| MANUF. | MANUFACTURER |
| MF | MAINTENANCE FACTOR |
| MAX. | MAXIMUM |
| MB | MAIN BREAKER |
| MECH. | MECHANICAL |
| MCM | THOUSAND CIRCULAR MILLS |
| MG | MOTOR GENERATOR |
| MTD. | MOUNTED |
| MIN. | MINIMUM |
| M.L.O. | MAIN LUGS ONLY |
| N. | NEUTRAL |
| NC | NORMALLY CLOSED |
| N.E.C. | NATIONAL ELECTRICAL CODE |
| NEMA | NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION |
| NIC | NOT IN CONTRACT |
| NO | NORMALLY OPEN |
| NTS | NOT TO SCALE |
| No./# | NUMBER |

| | |
|---|---|
| % | PERCENT |
| ϕ | PHASE |
| P.V.C. | POLYVINYLCHLORIDE |
| PB | PULL BOX |
| PNL. | PANELBOARD |
| P.C. | PLUMBING CONTRACTOR |
| PRI. | PRIMARY |
| PSI | POUNDS PER SQUARE INCH |
| R. | RADIUS |
| RF | RADIO FREQUENCY |
| REBAR. | REINFORCING BAR |
| RECEPT. | RECEPTACLE |
| REQ'D | REQUIRED |
| REV. | REVISE/REVISION |
| REC. | RECESSED |
| R.SW. | REMOTE CONTROL SWITCH |
| RGS | RIGID GALVANIZED STEEL CONDUIT |
| SECT. | SECTION |
| SEC. | SECONDARY |
| SERV. | SERVICE |
| 1/C | SINGLE CONDUCTOR |
| SK. | SKETCH |
| SPECS. | SPECIFICATIONS |
| SQ. | SQUARE |
| S.F. | SQUARE FEET |
| STA. | STATION |
| SW. | SWITCH |
| S.S. | STAINLESS STEEL |
| SW'BD | SWITCHBOARD |
| SYM. | SYMMETRICAL |
| SUSP. | SUSPENDED |
| SEP. | SEPARATE |
| SHT. | SHEET |
| SIG. | SIGNAL |
| SN | SOLID NEUTRAL |
| SURF. | SURFACE |
| THRU | THROUGH |
| TEL. | TELEPHONE |
| TRANSF./XFMR | TRANSFORMER |
| TYP. | TYPICAL |
| U.O.C. | UNLESS OTHERWISE NOTED |
| U.R.F. | UNDER RAISED FLOOR |
| VS. | VERSUS |
| VERT. | VERTICAL |
| VD | VOLTAGE DROP |
| V. | VOLTAGE/VOLTS |
| VA | VETERAN AFFAIRS |
| WP | WEATHERPROOF |
| WD. | WIDE |
| W/ | WITH |
| W/O | WITHOUT |
| W/I | WROUGHT IRON |
| WPG | WEATHERPROOF |
| G.F.C.I. | GROUND FAULT CIRCUIT INTERRUPTER |

## POWER

208/120V BRANCH CIRCUIT PANELBOARD

480/277V BRANCH CIRCUIT PANELBOARD

CONTROL PANEL

J FLUSH WALL JUNCTION BOX OR JUNCTION BOX ABOVE CEILING

EXPOSED CIRCUIT

UG UG UNDERGROUND CIRCUIT – NEW

UG UG UNDERGROUND EXISTING

## ELECTRICAL EQUIPMENT

PULL BOX, SIZE PER N.E.C. ARTICLE 314

XXXX ELECTRICAL EQUIPMENT TAG

T TRANSFORMER

## LIGHTING

FA FIXTURE TYPE (INDICATION)
EXTERIOR POLE MOUNTED AREA LIGHT

L1 – XX CIRCUIT DESIGNATION

SLASHES INDICATE NUMBER OF CONDUCTORS

EXTERIOR LIGHT POLE

EXTERIOR POLE MOUNTED LIGHT

DUAL HEAD EXTERIOR POLE MOUNTED LIGHT

CAMERA

## SPECIAL SYSTEMS

EMERGENCY CALL SYSTEM / BLUE LIGHT

## DEMOLITION NOTES

REMOVE ALL OBSOLETE ELECTRICAL EQUIPMENT, FIXTURES, CONDUIT, WIRING, CONTROLS, HANGERS, PADS, AND SUPPORTS UNLESS OTHERWISE INDICATED TO REMAIN. DISCONNECT CIRCUIT AND WIRING FROM EQUIPMENT WHICH IS TO BE REMOVED BY OTHERS. WIRING MADE OBSOLETE BY THE NEW CONSTRUCTION SHALL BE REMOVED. CONDUIT MADE OBSOLETE BY THE NEW CONSTRUCTION SHALL BE REMOVED. PIPING AND WIRING REMOVED FROM THE EXISTING ELECTRICAL SYSTEMS SHALL NOT BE USED IN THE INSTALLATION OF THE NEW SYSTEMS.

DEMOLITION INCLUDES, BUT IS NOT LIMITED TO, REMOVAL AND LEGAL DISPOSAL OF EQUIPMENT AND SYSTEMS MADE OBSOLETE AND/OR REPLACED BY NEW WORK. DEMOLITION INCLUDES RELOCATION OR REINSTALLATION, DISCONNECTIONS AND RECONNECTIONS OF CIRCUITS, SUPPORTS, AND SUBSEQUENT FINAL SUPPORTS, TEMPORARY CAPPING, AND REROUTING OF TEMPORARY CIRCUITS TO PERMIT NEW OR RENOVATION WORK TO PROCEED.

THE DEMOLITION WORK INDICATED ON THE DRAWING IS INTENDED TO ASSIST THE CONTRACTOR AND GIVE GENERAL INFORMATION. NOT ALL DEMOLITION OR TEMPORARY CONNECTIONS ARE SHOWN. PRIOR TO SUBMITTING BID, THE CONTRACTOR SHALL VISIT THE PROJECT SITE AND REVIEW ORIGINAL DRAWINGS IF AVAILABLE. CONTRACTOR IS RESPONSIBLE TO DETERMINE THE FULL EXTENT OF DEMOLITION, AND INCLUDE ALL REQUIRED DEMOLITION WORK IN HIS BID, WHETHER OR NOT SPECIFICALLY SHOWN ON DRAWINGS. NO ADDITIONAL COST WILL BE GRANTED FOR DEMOLITION. LEGALLY DISPOSE OF ALL ITEMS AND MATERIALS, EXCEPT ANY ITEMS SPECIFICALLY DESIGNATED BY THE OWNER TO BE SALVAGED. REMOVE AND REPLACE THE DESIGNATED SALVAGED EQUIPMENT IN A LOCATION DIRECTED BY THE OWNER AT NO ADDITIONAL EXPENSE.

REFER TO CIVIL TRADE DEMOLITION DRAWINGS FOR DEVICES AND EQUIPMENT THAT HAVE TO BE REMOVED DUE TO THE NEW CONSTRUCTION AND RENOVATIONS AND EXTENT OF AREA TO BE DEMOLISHED. DISCONNECT POWER AND CONTROLS SERVING SUCH DEVICES AND EQUIPMENT WHETHER OR NOT SPECIFICALLY SHOWN ON ELECTRICAL DRAWINGS TO FACILITATE DEMOLITION AND NEW CONSTRUCTION.

IN ALL AREAS WHERE PATCHING IS REQUIRED, THE ELECTRICAL CONTRACTOR SHALL PATCH THE SUBSURFACE WHERE THE NEW SURFACE IS TO BE FINISHED BY THE GENERAL CONTRACTOR. THIS SUBSURFACE MUST BE PROVIDED SO THAT IT DOES NOT INHIBIT THE INSTALLATION OF OR AFFECT THE APPEARANCE OF THE NEW FINISH. IF A NEW FINISH WILL NOT BE PROVIDED BY THE GENERAL CONTRACTOR, THE ELECTRICAL CONTRACTOR IS RESPONSIBLE TO PATCH THE SURROUNDING SURFACE TO MATCH EXISTING.

MAINTAIN CONTINUITY OF EXISTING CIRCUITS FOR EQUIPMENT AND DEVICES TO REMAIN. IF A DEVICE OR EQUIPMENT IS REMOVED AND IS PART OF AN EXISTING CIRCUIT TO REMAIN, THE CIRCUIT SHALL BE RESTORED TO IT'S ORIGINAL CONDITION.

## GENERAL NOTE

1. NO LIVE ELECTRICAL WORK IS PERMITTED. ALL ELECTRICAL SHUT DOWNS FOR CONNECTIONS MUST BE REQUESTED 2 WEEK IN ADVANCE.
2. PROVIDE UPDATED PANEL SCHEDULES FOR ALL PANELBOARDS IN WHICH ASSOCIATED WORK IS BEING DONE.
3. NOT ALL SYMBOLS AND ABBREVIATIONS ARE USED.
4. CONTRACTOR TO COMPLY, SUBMIT ALL REQUIRED INTERNAL PAPERWORK AND INFORMATION FOR ANY SHUTDOWN.
5. CONDUCTORS AND CABLES SHALL BE IN ACCORDANCE WITH ASTM, NEMA, NFPA, AND UL. ALL CONDUCTORS SHALL BE COPPER. MINIMUM SIZE SHALL BE #12 AWG. #8 AWG AND LARGER SHALL BE STRANDED. #10 AWG AND SMALLER SHALL BE SOLID. INSULATION SHALL BE THHN–THWN.
6. COMMUNICATION CABLE SHALL BE TYPE CAT 6.
7. TELE/COMMUNICATION CABLE FOR THE EMERGENCY CALL BOX SHALL BE (2) TWISTED PAIR #16 WITH SHIELD.

| Revisions: | Date: |
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|---|---|
| Drawing Title | SYMBOLS, NOTES, AND ABBREVIATIONS |
| Phase | CONSTRUCTION DOCUMENTS |
| Project Title | PARKING LOT REPLACEMENT AND EXPANSION |
| Project Number | 526-17-107 |
| Building Number | |
| Approved By: Project Director | |
| Location | 130 WEST KINGSBRIDGE ROAD, BRONX, NEW YORK 10468 |
| Drawing Number | E-001 |
| Issue Date | 10/22/2019 |
| Checked | T.J.S. |
| Drawn | B.F.D. |

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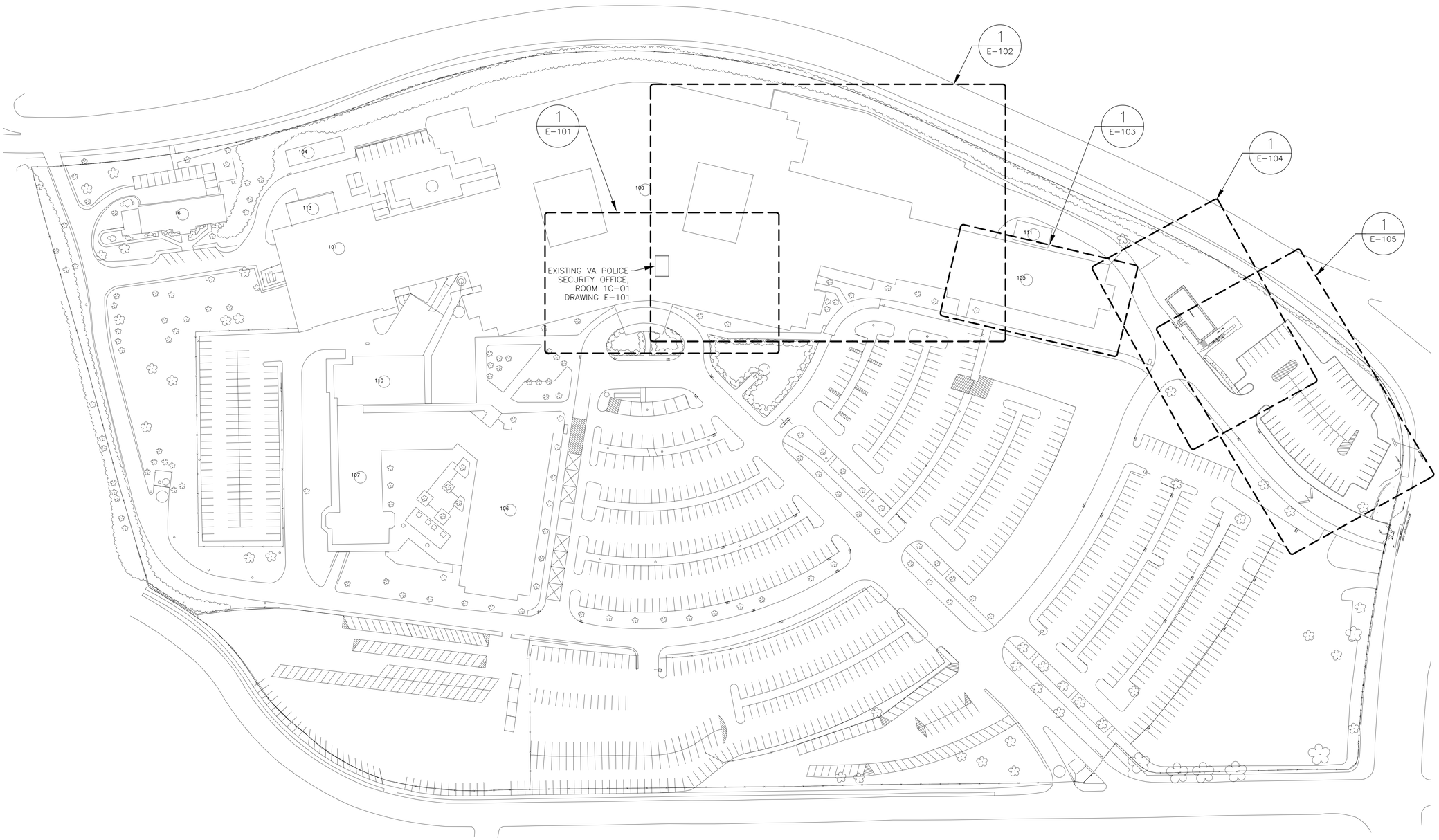


PROJECT NORTH N

1 / E-100 ELECTRICAL SITE PLAN

SCALE: 1"=50-0"

| Revisions: | Date: |
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| Drawing Title: ELECTRICAL SITE PLAN | Phase: CONSTRUCTION DOCUMENTS | Project Title: PARKING LOT REPLACEMENT AND EXPANSION | Project Number: 526-17-107 |
| Approved By: Project Director | | Location: 130 WEST KINGSBRIDGE ROAD, BRONX, NEW YORK 10468 | Building Number: |
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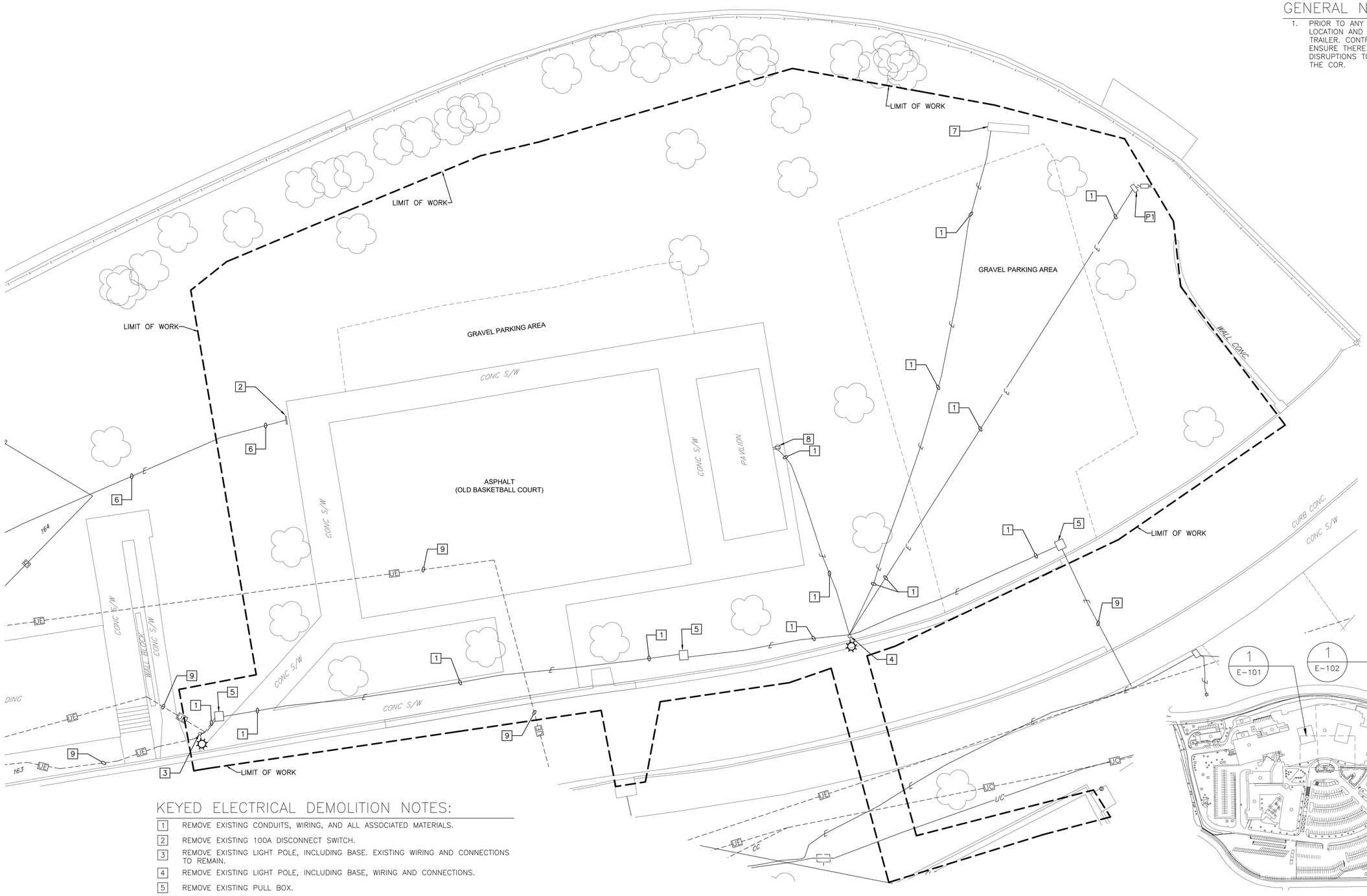
## GENERAL NOTE:

1. PRIOR TO ANY DEMOLITION WORK CONTRACTOR SHALL VERIFY LOCATION AND ROUTING OF POWER SUPPLY TO THE EXISTING TRAILER. CONTRACTOR SHALL PROCEED WITH CAUTION TO ENSURE THERE ARE NO UNSCHEDULED DISRUPTIONS. ANY DISRUPTIONS TO THE TRAILER SHALL BE COORDINATED WITH THE COR.



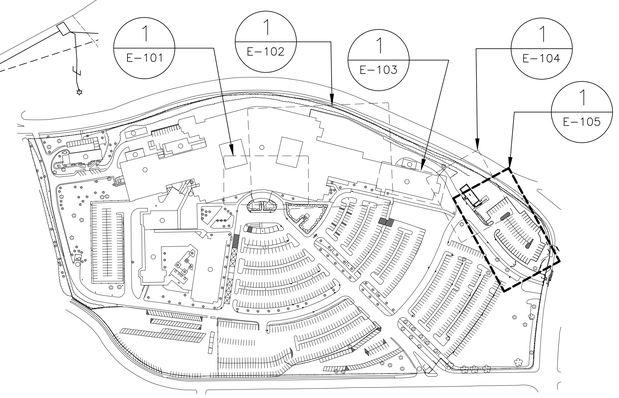

## KEYED ELECTRICAL DEMOLITION NOTES:

1. REMOVE EXISTING CONDUITS, WIRING, AND ALL ASSOCIATED MATERIALS.
2. REMOVE EXISTING 100A DISCONNECT SWITCH.
3. REMOVE EXISTING LIGHT POLE, INCLUDING BASE. EXISTING WIRING AND CONNECTIONS TO REMAIN.
4. REMOVE EXISTING LIGHT POLE, INCLUDING BASE, WIRING AND CONNECTIONS.
5. REMOVE EXISTING PULL BOX.
6. REMOVE EXISTING CONDUITS, WIRING, AND ALL ASSOCIATED MATERIALS TO SOURCE.
7. REMOVE EXISTING SIGN. SIGN BASE SHALL BE PROTECTED AND IS TO REMAIN.
8. REMOVE EXISTING RECEPTACLE, CONDUITS, WIRING, AND ALL ASSOCIATED MATERIALS BACK TO SOURCE.
9. REMOVE EXISTING WIRING TO SOURCE OF ORIGIN.

P1 CAMERA AND POLE, PROTECT TO REMAIN.

PROJECT NORTH N

1 / ED-101 ELECTRICAL PARKING LOT DEMOLITION PLAN
SCALE: 1"=10-0"




N KEY PLAN
SCALE: NO SCALE

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| Drawing Title | ELECTRICAL PARKING LOT DEMOLITION PLAN |
| Phase | CONSTRUCTION DOCUMENTS |
| Project Title | PARKING LOT REPLACEMENT AND EXPANSION |
| Project Number | 526-17-107 |
| Building Number | |
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| Location | 130 WEST KINGSBRIDGE ROAD, BRONX, NEW YORK 10468 |
| Issue Date | 10/22/2019 |
| Checked | T.J.S. |
| Drawn | B.V.N. |
| Drawing Number | ED-101 |

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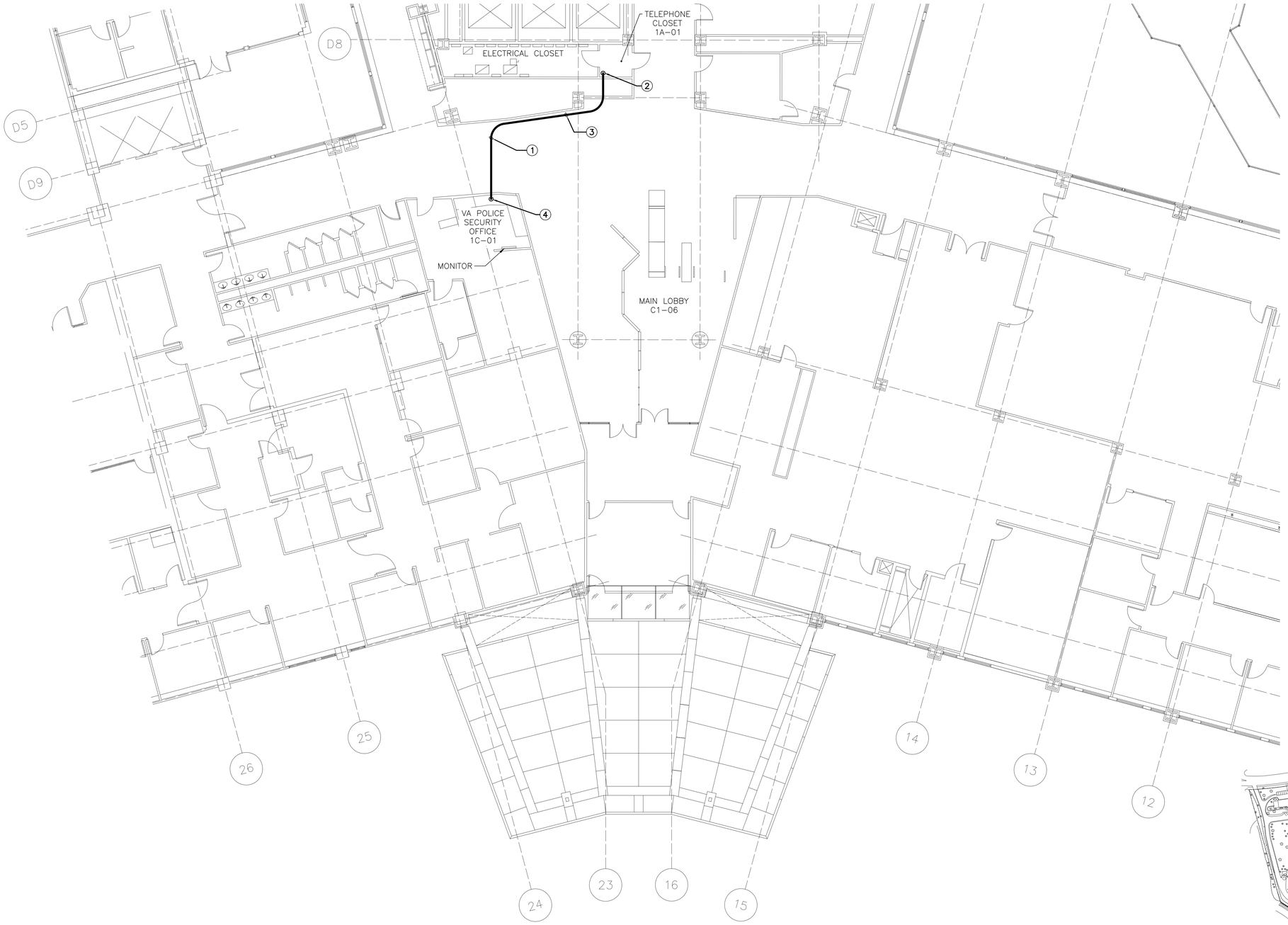



PROJECT NORTH

1 / E-101 BUILDING 100 POLICE OFFICE ELECTRICAL PLAN

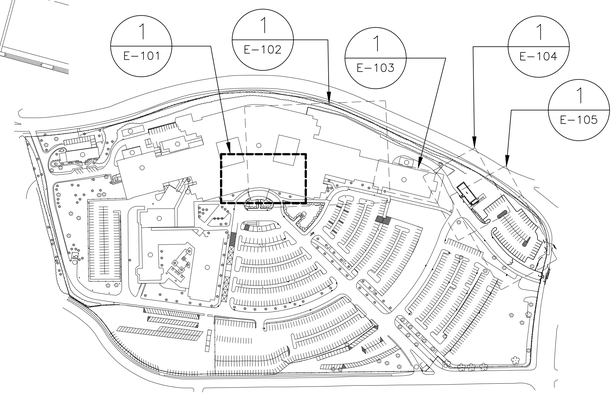
SCALE: 1"=10-0"

## KEYED NOTES:

1. PROPOSED FIBER-OPTIC CABLE ROUTING. FIBER-OPTIC CABLE SHALL BE 24 STRAND MULTIMODE FIBER-OPTIC CABLE. CONTRACTOR SHALL PROVIDE ALL ASSOCIATED MATERIALS REQUIRED. ALL FIBER-OPTIC CABLE SHALL BE CONTINUOUS RUNS FROM THE NETWORK SWITCHES TO THE POLICE STATION. FIBER-OPTIC CABLE SHALL BE TIED INTO THE ASSOCIATED NETWORK VIDEO RECORDER. SEE ONE-LINE DIAGRAM 2/EP-112. CONTRACTOR SHALL COORDINATE INSTALLATION WITH VA POLICE AND COR AS WELL AS ENSURE A COMPLETE AND WORKING SYSTEM.
2. DROP TO TUNNEL ACCESS GA-1A. SEE DRAWING E-102.
3. FIBER-OPTIC CABLE SHALL BE RUN IN ACCESSIBLE SPACE ABOVE THE CEILING.
4. FIBER-OPTIC CABLE SHALL DROP INTO ACCESSIBLE PIPE CHASE IN VA POLICE STATION. PROVIDE LAYER 3 NETWORK SWITCH ON IT RACK IN THE POLICE SECURITY OFFICE 1C-01. FIBER-OPTIC CABLE SHALL RUN TO PROVIDED LAYER 3 NETWORK SWITCH. CAT 6 CABLE SHALL BE USED FROM THE LAYER 3 NETWORK SWITCH TO NETWORK VIDEO RECORDER. PROVIDE SUFFICIENT LENGTH OF CAT 6 CABLE SO THE NETWORK VIDEO RECORDER CAN BE INSTALLED AT ANY LOCATION IN VA POLICE SECURITY OFFICE IC-01. ALL INSTALLATIONS SHALL BE COORDINATED WITH THE VA POLICE AND COR.

## GENERAL NOTES:

1. ALL INSTALLATIONS OF CAMERAS/POE'S, NETWORK SWITCHES, AND SECURITY EQUIPMENT SHALL BE COORDINATED WITH THE VA POLICE DEPARTMENT AND SHALL BE INSTALLED AS PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
2. ALL BORING AND DRILLING DURING THE PENETRATION SHALL BE COORDINATED WITH THE COR.
3. ALL ACCESSIBLE FIBER-OPTIC CABLE ABOVE THE COMMUNICATION OFFICE AND THE 1A TELEPHONE CLOSET ON THE FIRST FLOOR SHALL BE MOUNTED WITH J HOOKS EVERY 36". SEE DETAIL 1/EP-112. FIBER-OPTIC CABLE SHALL BE IN 2" EMT CONDUIT IN ALL OTHER AREAS OUTSIDE OF THE COMMUNICATION OFFICE AND 1A TELEPHONE CLOSET.
4. NETWORK VIDEO RECORDER SHALL BE PROVIDED FOR THE POLE MOUNTED SECURITY CAMERAS/POE'S. SEE ONE-LINE DIAGRAM 2/E-112. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS, INCLUDING THE ENTIRE SYSTEM AND ALL ASSOCIATED COMPONENTS OF THE NETWORK VIDEO RECORDER TO THE VA POLICE AND COR PRIOR TO PURCHASE AND INSTALLATION. NETWORK VIDEO RECORDER SHALL BE COMPATIBLE AND CAPABLE OF INTEGRATION INTO THE EXISTING VA SYSTEM. CONTRACTOR SHALL ENSURE A COMPLETE WORKING SYSTEM UPON INSTALLATION.
5. WALL AND FLOOR PENETRATIONS SHALL BE PATCHED AND SEALED WITH SEALANTS WITH A MATCHING FIRE RATING OF THE WALL IN WHICH THEY PENETRATE. PROVIDE PIPE SLEEVE AT ALL WALL PENETRATIONS. SEE FIRE-STOPPING AND JOINT SEALANTS SPECIFICATION SECTIONS.
6. TIE PROVIDED EMERGENCY CALL BOX CAMERAS/POE'S INTO EXISTING NETWORK VIDEO RECORDER STAND ALONE SYSTEM ASSOCIATED WITH ALL OTHER VA CAMPUS EMERGENCY CALL BOX CAMERAS. ALL WORK SHALL BE COORDINATED WITH THE COR AND VA POLICE. CONTRACTOR SHALL PROVIDE ALL PROGRAMMING AND A SEPARATE MONITOR FOR ALL EMERGENCY CALL BOX CAMERA FEEDS AS PER THE VA POLICE'S DIRECTION. CONTRACTOR SHALL PROVIDE A SEPARATE MONITOR, OR SHALL CONNECT THE EMERGENCY CALL BOX FEED TO THE EXISTING SYSTEM AS PER THE DIRECTION OF THE VA POLICE AND SECURITY.




N KEY PLAN

SCALE: NO SCALE

| Revisions: | Date: |
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| Drawing Title: BUILDING 100 POLICE OFFICE ELECTRICAL PLAN | Phase: CONSTRUCTION DOCUMENTS | Project Title: PARKING LOT REPLACEMENT AND EXPANSION | Project Number: 526-17-107 |
| | | | Building Number: 100 |
| Approved By: Project Director | | Location: 130 WEST KINGSBRIDGE ROAD, BRONX, NEW YORK 10468 | Drawing Number: E-101 |
| | | Issue Date: 10/22/2019 · Checked: T.J.S. · Drawn: B.F.D. | |

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VA FORM 08 - 6231

PROJECT NORTH

1 / E-102 BUILDING 100 SUB BASEMENT ELECTRICAL PLAN

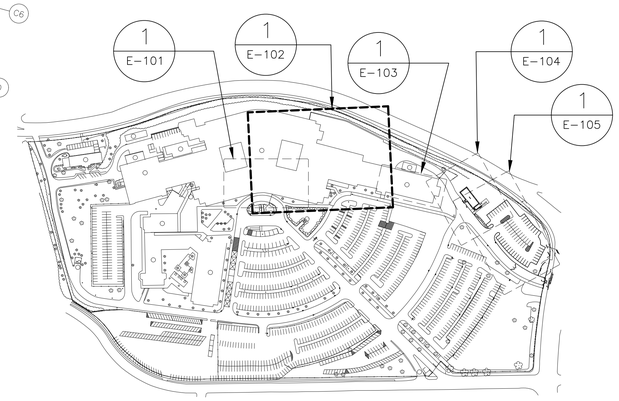
SCALE:NOT TO SCALE

## KEYED NOTES:

1. FIBER-OPTIC CABLE ROUTING. FIBER-OPTIC CABLE SHALL BE 24 STRAND MULTIMODE FIBER-OPTIC CABLE. CONTRACTOR SHALL PROVIDE ALL ASSOCIATED MATERIALS REQUIRED. ALL FIBER-OPTIC CABLE SHALL BE CONTINUOUS RUNS FROM THE NETWORK SWITCHES TO THE VA POLICE SECURITY OFFICE 1C-01. SEE ONE-LINE DIAGRAM 2/EP-112.
2. SEE DRAWING E-103 FOR CONTINUED ROUTING.
3. ROUTING CONTINUES TO TELEPHONE CLOSET 1C-01. SEE DRAWING E-101 FOR CONTINUED ROUTING.

## GENERAL NOTES:

1. WALL PENETRATIONS SHALL BE PATCHED AND SEALED WITH SEALANTS WITH A MATCHING FIRE RATING OF THE WALL IN WHICH THEY PENETRATE. PROVIDE PIPE SLEEVE AT ALL WALL PENETRATIONS. SEE FIRESTOPPING AND JOINT SEALANTS SPECIFICATION SECTIONS.
2. FIBER-OPTIC CABLE SHALL BE MOUNTED IN CONTINUOUS RUNS. PROVIDE 2" EMT CONDUIT.
3. CONTRACTOR SHALL VERIFY ROUTING AND LENGTH OF FIBER-OPTIC CABLE PRIOR TO SUBMITTING BID.
4. ALL BORING AND DRILLING DURING CONSTRUCTION SHALL BE COORDINATED WITH THE COR.




N KEY PLAN

SCALE:NO SCALE

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| Drawing Title: BUILDING 100 SUB BASEMENT ELECTRICAL PLAN | Phase: CONSTRUCTION DOCUMENTS | Project Title: PARKING LOT REPLACEMENT AND EXPANSION | Project Number: 526-17-107 |
| Approved By: Project Director | | | Building Number: 100 |
| | | Location: 130 WEST KINGSBRIDGE ROAD, BRONX, NEW YORK 10468 | Drawing Number: E-102 |
| | | Issue Date: 10/22/2019 — Checked: T.J.S. — Drawn: B.V.N. | |

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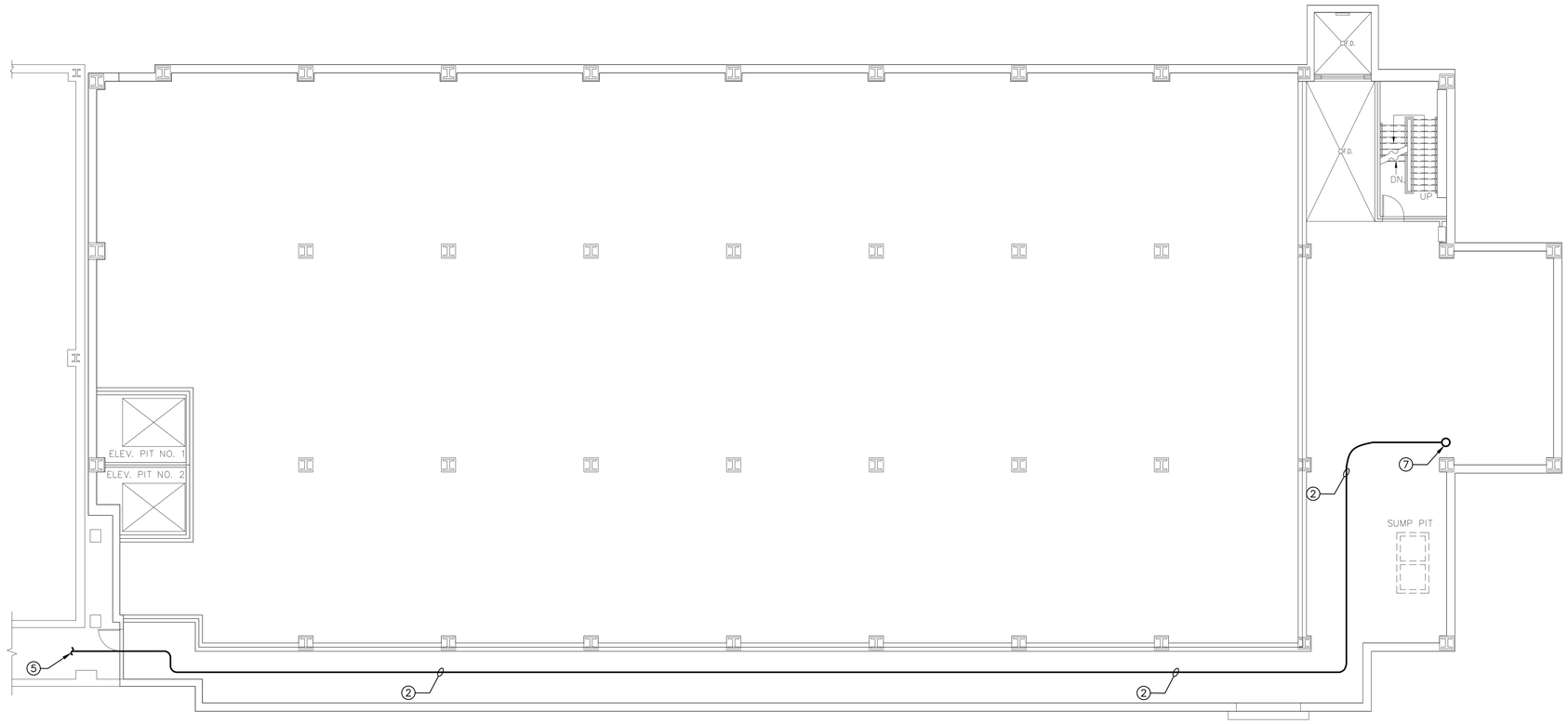
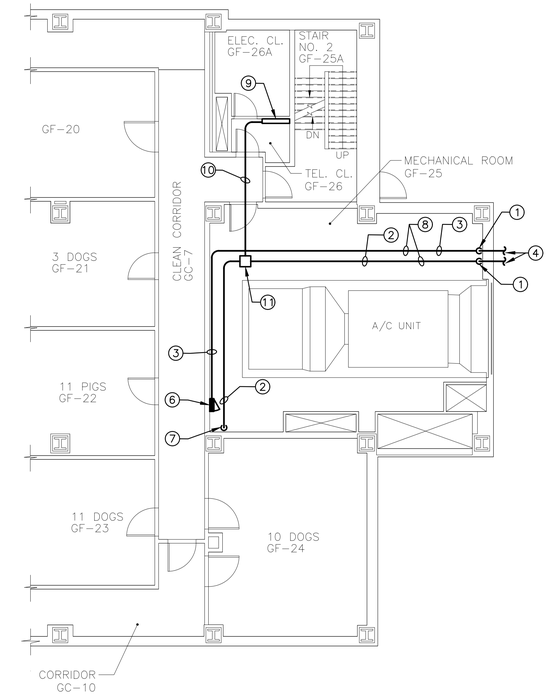



PROJECT NORTH N

1 / E-103 BUILDING 105 BASEMENT ELECTRICAL ROUTING PLAN
SCALE: 1/8"=1'-0"

PROJECT NORTH N

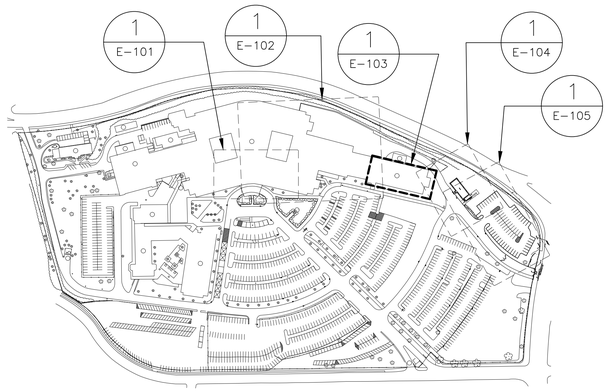
2 / E-103 BUILDING 105 GROUND FLOOR ELECTRICAL ROUTING PLAN
SCALE: 1/8"=1'-0"

## KEYED NOTES:

1. PROVIDE JUNCTION BOX. ALL CONDUIT CONDUIT IN MECHANICAL ROOM GF-25 SHALL BE 2" RIGID GALVANIZED STEEL UNLESS NOTED OTHERWISE.
2. FIBER-OPTIC CABLE ROUTING. FIBER-OPTIC CABLE SHALL BE 24 STRAND MULTIMODE FIBER-OPTIC CABLE. CONTRACTOR SHALL PROVIDE ALL ASSOCIATED MATERIALS REQUIRED. ALL FIBER-OPTIC CABLE SHALL BE CONTINUOUS RUNS WITHIN 2" EMT CONDUIT (UNLESS OTHERWISE NOTED) FROM THE NETWORK SWITCH TO THE NETWORK VIDEO RECORDER LOCATED WITHIN THE VA POLICE STATION. SEE ONE-LINE DIAGRAM 2/EP-112.
3. PROVIDE 2" CONDUIT FOR ALL POWER WIRING TO EXISTING PANELBOARD "EEDPLE"
4. SEE E-104 FOR CONTINUATION OF UNDERGROUND CONDUIT ROUTING.
5. SEE E-102 FOR CONTINUATION OF FIBER-OPTIC CABLE ROUTING.
6. PANEL "EEDPLE". ALL REQUIRED EMERGENCY POWER SHALL BE FED FROM THE EXISTING PANEL "EEDPLE". CONTRACTOR SHALL PROVIDE NEW BREAKERS AS REQUIRED FOR NOTED INSTALLATION. SEE PANELBOARD SCHEDULE ON EP-112.
7. FIBER-OPTIC CABLE SHALL PENETRATE THE FLOOR OF MECHANICAL ROOM GF-25. FIBER-OPTIC CABLE SHALL BE ROUTED TO THE SUB BASEMENT OF BUILDING 105.
8. CONDUIT FOR CONDUCTORS AND FIBER-OPTIC CABLE SHALL BE MOUNTED TO THE CEILING OF MECHANICAL ROOM GF-25. CONTRACTOR SHALL VERIFY LENGTH AND COORDINATE ROUTING WITH ALL EXISTING FEATURES OF THE MECHANICAL ROOM.
9. EXISTING TELEPHONE DISTRIBUTION BLOCK. CONTRACTOR SHALL INSTALL EMERGENCY CALL BOX TELEPHONE WIRE WITHIN EXISTING TELEPHONE DISTRIBUTION BLOCK. CONTRACTOR SHALL COORDINATE INSTALLATION WITH VA IT AND COR. SEE EMERGENCY PHONE WIRING DIAGRAM 10/EP-110.
10. PROVIDE 3/4" RIGID STEEL CONDUIT. TELEPHONE WIRE SHALL BE ROUTED TO THE TELEPHONE DISTRIBUTION PANEL WITHIN THE NOTED CONDUIT.
11. PROVIDE 10"X10" JUNCTION BOX.

## GENERAL NOTES:

1. WALL, FLOOR, AND CEILING PENETRATIONS SHALL BE PATCHED AND SEALED WITH SEALANTS WITH A MATCHING FIRE RATING OF THE WALL, FLOOR OR CEILING IN WHICH THEY PENETRATE. PROVIDE PIPE SLEEVE AT ALL WALL PENETRATIONS. ALL FIRESTOPPING WITHIN THE MECHANICAL ROOM SHALL BE WATER RESISTANT. SEE FIRESTOPPING AND JOINT SEALANTS SPECIFICATION SECTIONS.
2. ALL FIBER-OPTIC CABLE SHALL BE MOUNTED IN CONTINUOUS RUNS WITHIN 2" EMT CONDUIT (UNLESS OTHERWISE NOTED) FROM THE NETWORK SWITCH TO THE NETWORK VIDEO RECORDER LOCATED WITHIN THE VA POLICE STATION.
3. CONTRACTOR SHALL VERIFY ROUTING AND LENGTH OF FIBER-OPTIC CABLE PRIOR TO SUBMITTING BID.
4. ALL BORING AND DRILLING DURING THE PENETRATION SHALL BE COORDINATED WITH THE COR.
5. ALL CONDUIT WITHIN MECHANICAL ROOM GF-25 SHALL BE RIGID GALVANIZED STEEL.
6. EMERGENCY CALL SYSTEM SHALL BE A STAND-ALONE SYSTEM. THE VIDEO AND AUDIO SHALL TIE INTO A DESIGNATED CONNECTION POINT. THIS SHALL BE COORDINATED WITH VA COR AND POLICE. POLE MOUNTED CAMERAS SHALL BE CONNECTED TO AN INDEPENDENT NVR SYSTEM LOCATED IN THE VA POLICE SECURITY OFFICE ROOM 1C-01. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS AND ENSURE A COMPLETE AND OPERATIONAL SYSTEM UPON INSTALLATION. ALL WORK SHALL BE COORDINATED WITH THE VA POLICE AND COR.




N KEY PLAN
SCALE: NO SCALE

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| Drawing Title | BUILDING 105 BASEMENT AND GROUND FLOOR ELECTRICAL PLANS |
| Phase | CONSTRUCTION DOCUMENTS |
| Project Title | PARKING LOT REPLACEMENT AND EXPANSION |
| Project Number | 526-17-107 |
| Building Number | 105 |
| Approved By: Project Director | |
| Location | 130 WEST KINGSBRIDGE ROAD, BRONX, NEW YORK 10468 |
| Issue Date | 10/22/2019 |
| Checked | T.J.S. |
| Drawn | B.V.N. |
| Drawing Number | E-103 |

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PROJECT NORTH N

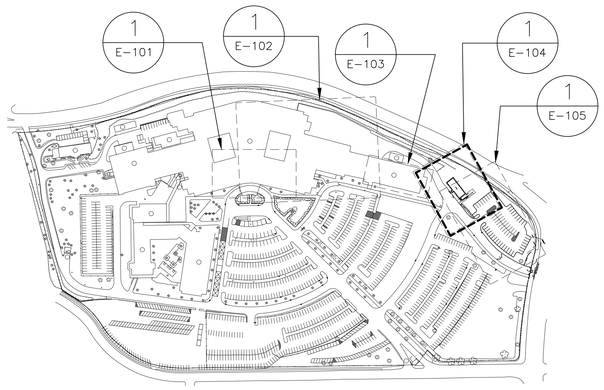
1 / E-104 CONDUIT ROUTING ELECTRICAL SITE PLAN
SCALE: 1"=10'-0"

## KEYED NOTES:

1. PROVIDE IN-GROUND PULL BOX FOR COMMUNICATION ONLY. SEE DETAIL 9/EP-110
2. PROVIDE 4 CONDUITS UNDERGROUND, 1 POWER, 1 COMMUNICATIONS, 1 POWER SPARE, AND 1 COMMUNICATIONS SPARE. CONDUITS SHALL BE 2". SEE DETAIL 2/EP-110.
3. PROVIDE IN-GROUND PULL BOX FOR POWER ONLY.
4. PROVIDE 2 CONDUITS UNDERGROUND, 1 POWER, AND 1 POWER SPARE. CONDUITS SHALL BE 2". SEE DETAIL 1/EP-110.
5. WALL PENETRATIONS SHALL BE PATCHED AND SEALED WITH SEALANTS WITH A MATCHING FIRE RATING OF THE WALL IN WHICH THEY PENETRATE.
6. ALL BORING AND DRILLING DURING THE PENETRATION OF THE EXTERIOR WALL OF BUILDING 105 SHALL BE COORDINATED WITH THE COR.
7. EMERGENCY POWER SHALL BE FED FROM THE "EXISTING PANEL". CONTRACTOR SHALL PROVIDE NEW BREAKERS AS REQUIRED FOR NOTED INSTALLATIONS.
8. CONDUIT SHALL PENETRATE THE WALL OF BUILDING 105. WALL PENETRATION SHALL BE LOCATED IN MECHANICAL ROOM GF-25.
9. SEE E-105 FOR CONDUIT ROUTING.
10. SEE E-103 CONDUIT, CONDUCTOR, AND FIBER-OPTIC CABLE ROUTING.
11. EXISTING PANEL 120/208V. PANEL BOARD SHALL BE NAMED AND LABELED "PLP". SEE PANEL SCHEDULE ON EP-112.
12. EXISTING 30A DISCONNECT
13. EXISTING 100A DISCONNECT
14. EXISTING 150KVA TRANSFORMER
15. EXISTING STRUT MOUNT
16. EXISTING CONCRETE PAD
17. PROVIDE 2 CONDUITS UNDERGROUND, 1 COMMUNICATION, AND 1 COMMUNICATION SPARE. CONDUITS SHALL BE 2". SEE DETAIL 1/EP-110.
18. DEMOLISH EXISTING CONCRETE CURBING AND GUTTER AND RESTORE.
19. DEMOLISH EXISTING ASPHALT FOR INSTALLATION OF UNDERGROUND ELECTRICAL CONDUIT DUCT BANK AND RESTORE.
20. CONTRACTOR SHALL HAND DIG ENTIRE AREA TO LOCATE ALL EXISTING UNDERGROUND LINES WHERE PROPOSED LINES WILL CROSS. SEE DETAIL 6/CP-102.
21. PROVIDE FENCE AND GATE SURROUNDING EXISTING ELECTRICAL EQUIPMENT. SEE FENCE DETAIL 3/CP-104.
22. PROVIDE 30X24X8 NEMA 3R NETWORK SWITCH ENCLOSURE MOUNTED TO STRUT CHANNEL. PROVIDE A HARDENED LAYER 2 SWITCH WITH A MINIMUM OF 10 PORTS ON SWITCH. NETWORK SWITCH SHALL BE COMPATIBLE WITH AND OF THE SAME MANUFACTURER AS THE NETWORK VIDEO RECORDER. SWITCH SHALL BE MOUNTED, INSTALLED, AND CONNECTED AS PER THE MANUFACTURERS INSTRUCTIONS. PROVIDE A QUAD RECEPTACLE WITHIN THE NETWORK SWITCH ENCLOSURE. PROVIDE 2-#12 CONDUCTORS AND 1-#12 GROUND. PROVIDE A SINGLE POLE 20 AMP CIRCUIT BREAKER IN PANELBOARD EEDPLE SPACE 21.

## GENERAL NOTES:

1. CONTRACTOR SHALL COORDINATE DEPTHS OF UNDERGROUND DUCT BANKS TO ENSURE THERE IS NO INTERFERENCE OF MULTIPLE UNDERGROUND CONDUIT INSTALLATIONS OR EXISTING UNDERGROUND UTILITIES.
2. ALL BORING AND DRILLING DURING THE PENETRATION OF THE EXTERIOR WALL OF BUILDING 105 SHALL BE COORDINATED WITH THE COR.
3. ALL TRENCHING SHALL BE DONE DURING OFF HOURS UNLESS WORK CAN BE PERFORMED ON ONE SIDE OF THE ROAD AT A TIME AND MAINTAIN TRAFFIC FLOW. PROVIDE STEEL PLATES OVER ALL OPEN TRENCHES TO ALLOW TRAFFIC FLOW DURING CONSTRUCTION. SEE GENERAL CIVIL NOTES.
4. ALL AREAS EXCAVATED OR DISTURBED SHALL BE RESTORED TO THEIR ORIGINAL SURFACE AT THE COMPLETION OF CONSTRUCTION. SEE CIVIL DETAILS 6/CP-102 AND 7/CP-102 FOR TYPICAL RESTORATION.
5. CONTRACTOR SHALL COORDINATE CONDUIT TO AVOID FENCE POSTS.




N KEY PLAN
SCALE: NO SCALE

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| Drawing Title: CONDUIT ROUTING ELECTRICAL SITE PLAN | Phase: CONSTRUCTION DOCUMENTS | Project Title: PARKING LOT REPLACEMENT AND EXPANSION | Project Number: 526-17-107 |
| Approved By: Project Director | | | Building Number: |
| | | Location: 130 WEST KINGSBRIDGE ROAD, BRONX, NEW YORK 10468 | Drawing Number: E-104 |
| | | Issue Date: 10/22/2019 · Checked: T.J.S. · Drawn: B.F.D. | |

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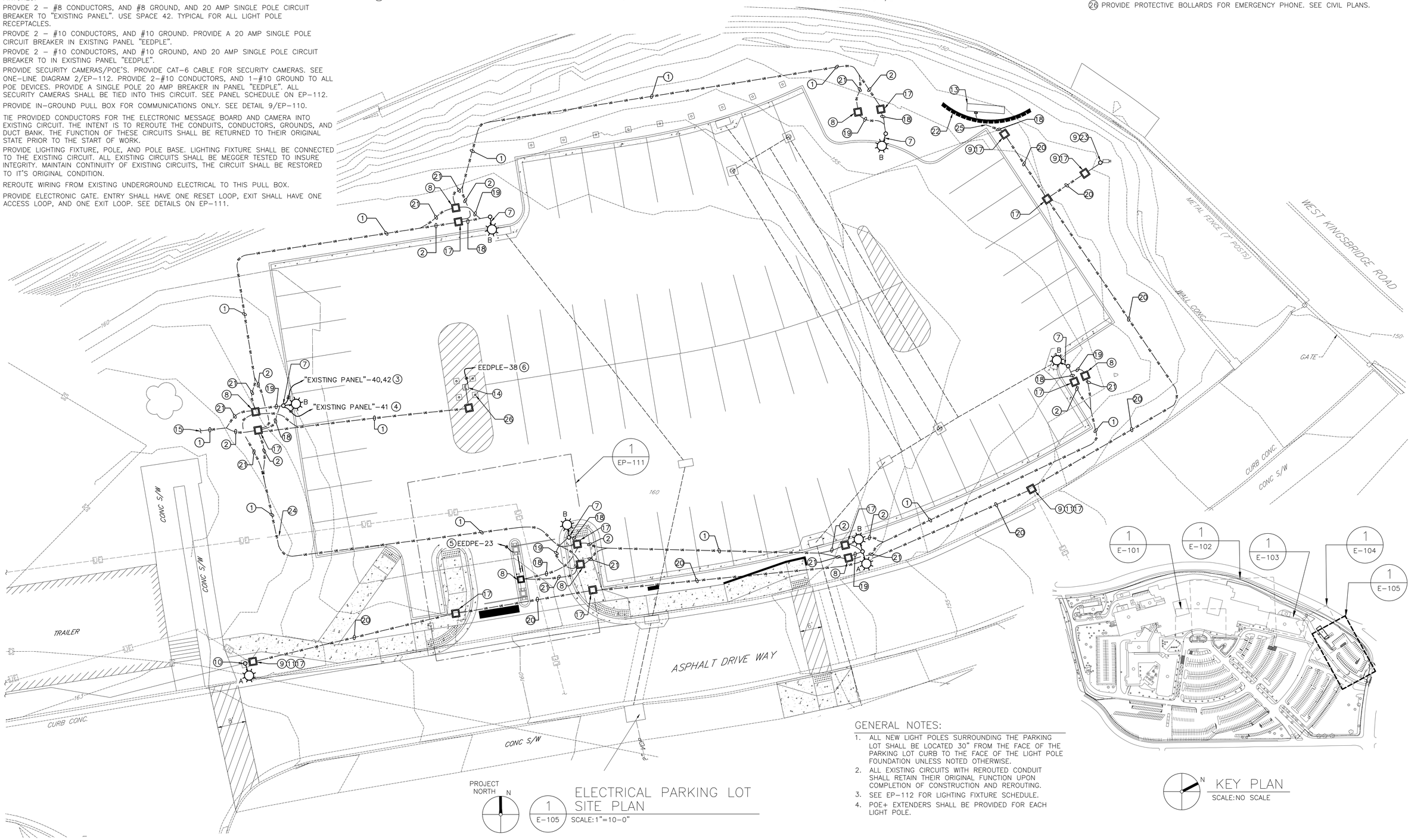
## KEYED NOTES:

1. PROVIDE 4 CONDUITS UNDERGROUND, 1 POWER, 1 COMMUNICATIONS, 1 POWER SPARE, AND 1 COMMUNICATIONS SPARE. CONDUITS SHALL BE 2". SEE DETAIL 2/EP-110.
2. PROVIDE 2 CONDUITS UNDERGROUND, 1 POWER AND 1 POWER SPARE. CONDUITS SHALL BE 2". SEE DETAIL 1/EP-110.
3. PROVIDE 3 – #8 CONDUCTORS, AND #8 GROUND, AND 20 AMP TWO POLE CIRCUIT BREAKER TO "EXISTING PANEL". USE SPACES 39 AND 41. TYPICAL FOR ALL LIGHTING FIXTURES.
4. PROVDE 2 – #8 CONDUCTORS, AND #8 GROUND, AND 20 AMP SINGLE POLE CIRCUIT BREAKER TO "EXISTING PANEL". USE SPACE 42. TYPICAL FOR ALL LIGHT POLE RECEPTACLES.
5. PROVDE 2 – #10 CONDUCTORS, AND #10 GROUND. PROVIDE A 20 AMP SINGLE POLE CIRCUIT BREAKER IN EXISTING PANEL "EEDPLE".
6. PROVDE 2 – #10 CONDUCTORS, AND #10 GROUND, AND 20 AMP SINGLE POLE CIRCUIT BREAKER TO IN EXISTING PANEL "EEDPLE".
7. PROVIDE SECURITY CAMERAS/POE'S. PROVIDE CAT-6 CABLE FOR SECURITY CAMERAS. SEE ONE-LINE DIAGRAM 2/EP-112. PROVIDE 2-#10 CONDUCTORS, AND 1-#10 GROUND TO ALL POE DEVICES. PROVIDE A SINGLE POLE 20 AMP BREAKER IN PANEL "EEDPLE". ALL SECURITY CAMERAS SHALL BE TIED INTO THIS CIRCUIT. SEE PANEL SCHEDULE ON EP-112.
8. PROVIDE IN-GROUND PULL BOX FOR COMMUNICATIONS ONLY. SEE DETAIL 9/EP-110.
9. TIE PROVIDED CONDUCTORS FOR THE ELECTRONIC MESSAGE BOARD AND CAMERA INTO EXISTING CIRCUIT. THE INTENT IS TO REROUTE THE CONDUITS, CONDUCTORS, GROUNDS, AND DUCT BANK. THE FUNCTION OF THESE CIRCUITS SHALL BE RETURNED TO THEIR ORIGINAL STATE PRIOR TO THE START OF WORK.
10. PROVIDE LIGHTING FIXTURE, POLE, AND POLE BASE. LIGHTING FIXTURE SHALL BE CONNECTED TO THE EXISTING CIRCUIT. ALL EXISTING CIRCUITS SHALL BE MEGGER TESTED TO INSURE INTEGRITY. MAINTAIN CONTINUITY OF EXISTING CIRCUITS, THE CIRCUIT SHALL BE RESTORED TO IT'S ORIGINAL CONDITION.
11. REROUTE WIRING FROM EXISTING UNDERGROUND ELECTRICAL TO THIS PULL BOX.
12. PROVIDE ELECTRONIC GATE. ENTRY SHALL HAVE ONE RESET LOOP, EXIT SHALL HAVE ONE ACCESS LOOP, AND ONE EXIT LOOP. SEE DETAILS ON EP-111.
13. EXISTING SIGN.
14. PROVIDE EMERGENCY PHONE. SEE DETAIL 6/EP-110.
15. SEE E-104 FOR CONDUIT ROUTING.
16. UNDERGROUND CONDUIT SHALL BE INSTALLED WITH THE REQUIRED NUMBER AND SIZE CONDUITS, WIRING, AND DUCT BANK FOR THE REPLACED WIRING. WIRE TYPES AND SIZES SHALL MATCH THE DEMOLISHED WIRING, OR BE REPLACED WITH AN APPROVED EQUAL.
17. PROVIDE IN-GROUND PULL BOX FOR POWER ONLY. SEE DETAIL 9/EP-110.
18. PROVIDE 1 CONDUIT UNDERGROUND FOR POWER. CONDUITS SHALL REDUCE TO 1" AS IT ENTERS EACH FIXTURE. SEE DETAIL 4/EP-110.
19. PROVIDE 1 CONDUIT UNDERGROUND FOR COMMUNICATIONS. CONDUITS SHALL REDUCE TO 1" AS IT ENTERS EACH FIXTURE. SEE DETAIL 4/EP-110.
20. PROVIDE 4 CONDUITS UNDERGROUND, 2 POWER, 1 POWER SPARE AND 1 COMMUNICATION SPARE. CONDUITS SHALL BE 2". SEE DETAIL 2/EP-110.
21. PROVIDE 2 CONDUITS UNDERGROUND, 1 COMMUNICATION, AND 1 COMMUNICATION SPARE. CONDUITS SHALL BE 2". SEE DETAIL 1/EP-110.
22. RETAINING WALL. SEE CIVIL PLANS.
23. EXISTING CAMERA POLE. CAMERA SHALL BE RESTORED TO IT'S ORIGINAL STATE PRIOR TO THE START OF THE WORK.
25. PROVIDE UNDERGROUND CONDUIT SWEEP TO FEED ABOVE GROUND JUNCTION BOX. COORDINATE WITH SIGN CONTRACTOR. INSTALL PER MANUFACTURERS INSTRUCTIONS. SEE DETAIL 3/EP-110.
24. CONTRACTOR SHALL HAND DIG ENTIRE ARE TO LOCATE ALL EXISTING UNDERGROUND LINES WHERE PROPOSED LINES WILL CROSS.
26. PROVIDE PROTECTIVE BOLLARDS FOR EMERGENCY PHONE. SEE CIVIL PLANS.




PROJECT NORTH N

1 E-105 ELECTRICAL PARKING LOT SITE PLAN
SCALE: 1"=10-0"

## GENERAL NOTES:

1. ALL NEW LIGHT POLES SURROUNDING THE PARKING LOT SHALL BE LOCATED 30" FROM THE FACE OF THE PARKING LOT CURB TO THE FACE OF THE LIGHT POLE FOUNDATION UNLESS NOTED OTHERWISE.
2. ALL EXISTING CIRCUITS WITH REROUTED CONDUIT SHALL RETAIN THEIR ORIGINAL FUNCTION UPON COMPLETION OF CONSTRUCTION AND REROUTING.
3. SEE EP-112 FOR LIGHTING FIXTURE SCHEDULE.
4. POE+ EXTENDERS SHALL BE PROVIDED FOR EACH LIGHT POLE.

N KEY PLAN
SCALE: NO SCALE

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| Drawing Title: ELECTRICAL PARKING LOT SITE PLAN | Phase: CONSTRUCTION DOCUMENTS | Project Title: PARKING LOT REPLACEMENT AND EXPANSION | Project Number: 526-17-107 |
| | | | Building Number: |
| Approved By: Project Director | | Location: 130 WEST KINGSBRIDGE ROAD, BRONX, NEW YORK 10468 | Drawing Number: E-105 |
| | | Issue Date: 10/22/2019 · Checked: T.J.S. · Drawn: B.F.D. | |

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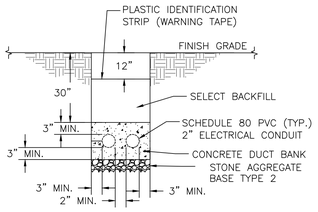
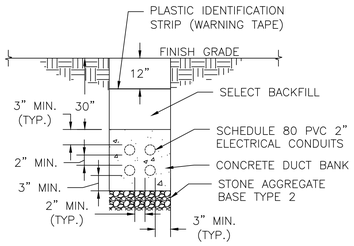
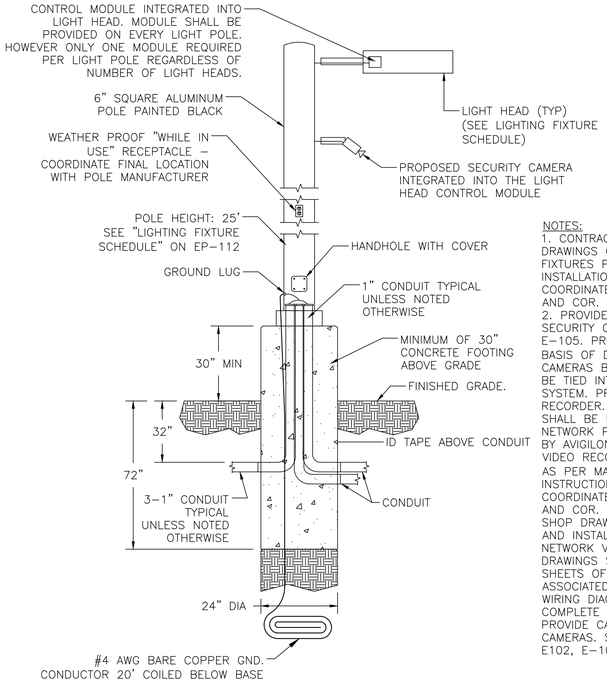



1 EP-110 TYPICAL UNDERGROUND CONDUIT DETAIL (2 CONDUITS)
SCALE:NOT TO SCALE

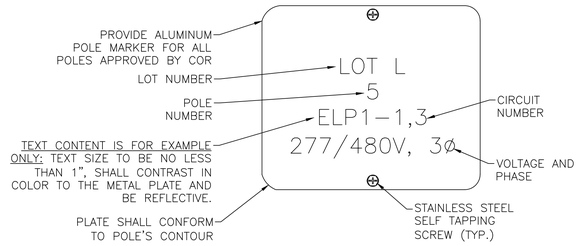



2 EP-110 TYPICAL UNDERGROUND CONDUIT DETAIL (4 CONDUITS)
SCALE:NOT TO SCALE

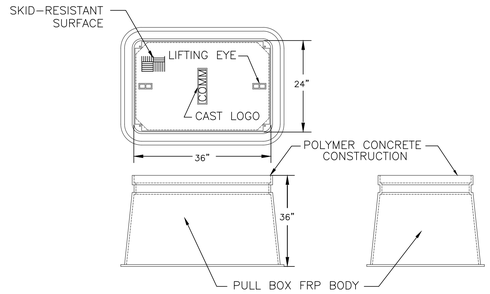


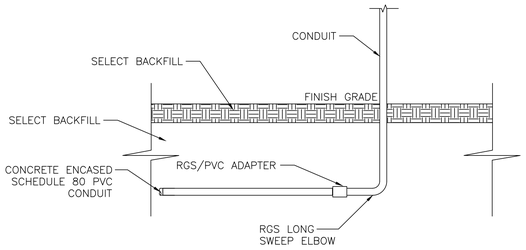

7 EP-110 LIGHTING BASE DETAIL
SCALE:NOT TO SCALE

NOTES:
1. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS OF POLES AND LIGHTING FIXTURES PRIOR TO PURCHASE OR INSTALLATIONS. CONTRACTOR SHALL COORDINATE WITH BRONX MASTER PLAN AND COR.
2. PROVIDE 5 POLE MOUNTED SECURITY CAMERAS LOCATED ON E-105. PROVIDED CAMERAS SHALL BE BASIS OF DESIGN: "H4 PTZ" DOME CAMERAS BY AVIGILON. CAMERAS SHALL BE TIED INTO EXISTING VA POLICE SYSTEM. PROVIDE A NETWORK VIDEO RECORDER. NETWORK VIDEO RECORDER SHALL BE BASIS OF DESIGN: HD NETWORK PREMIUM VIDEO RECORDER BY AVIGILON. CAMERAS AND NETWORK VIDEO RECORDER SHALL BE INSTALLED AS PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. INSTALLATION SHALL BE COORDINATED WITH THE VA POLICE AND COR. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS PRIOR TO PURCHASE AND INSTALLATION OF CAMERAS AND NETWORK VIDEO RECORDER. SHOP DRAWINGS SHALL INCLUDE PRODUCT SHEETS OF ALL CAMERAS AND ASSOCIATED MATERIALS AND SCHEMATIC WIRING DIAGRAM TO INSURE A COMPLETE AND FUNCTIONAL SYSTEM. PROVIDE CAT 6 CABLE TO ALL CAMERAS. SEE ROUTING ON E-101, E102, E-103, E-104, AND E-105.

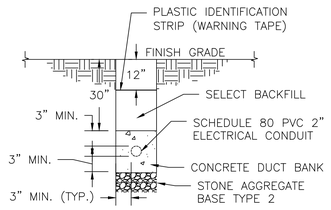



8 EP-110 POLE MARKER
SCALE:NOT TO SCALE

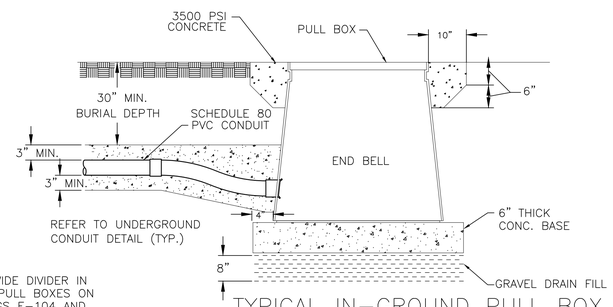



3 EP-110 CONDUIT UNDERGROUND SWEEP DETAIL
SCALE:NOT TO SCALE

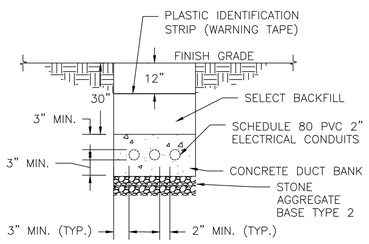



4 EP-110 TYPICAL UNDERGROUND CONDUIT DETAIL (1 CONDUIT)
SCALE:NOT TO SCALE

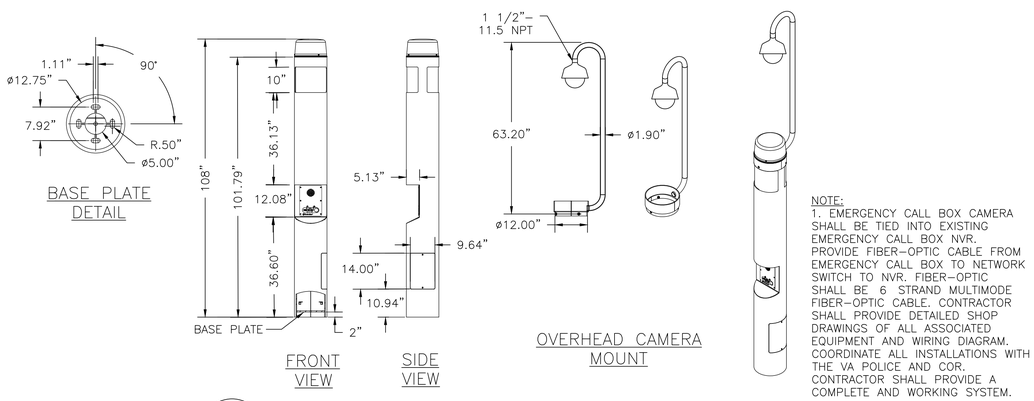



NOTE:
1. PROVIDE DIVIDER IN NOTED PULL BOXES ON DRAWINGS E-104 AND E-105. DIVIDER SHALL SEPARATE ALL POWER AND COMMUNICATION WIRING.

9 EP-110 TYPICAL IN-GROUND PULL BOX CABLE ENTRY/EXIT
SCALE:NOT TO SCALE

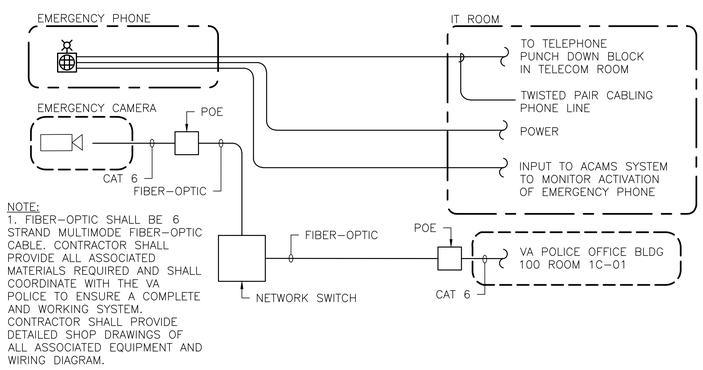



5 EP-110 TYPICAL UNDERGROUND CONDUIT DETAIL (3 CONDUITS)
SCALE:NOT TO SCALE




6 EP-110 EMERGENCY CALL BOX DETAIL
SCALE:NOT TO SCALE

NOTE:
1. EMERGENCY CALL BOX CAMERA SHALL BE TIED INTO EXISTING EMERGENCY CALL BOX NVR. PROVIDE FIBER-OPTIC CABLE FROM EMERGENCY CALL BOX TO NETWORK SWITCH TO NVR. FIBER-OPTIC SHALL BE 6 STRAND MULTIMODE FIBER-OPTIC CABLE. CONTRACTOR SHALL PROVIDE DETAILED SHOP DRAWINGS OF ALL ASSOCIATED EQUIPMENT AND WIRING DIAGRAM. COORDINATE ALL INSTALLATIONS WITH THE VA POLICE AND COR. CONTRACTOR SHALL PROVIDE A COMPLETE AND WORKING SYSTEM.




NOTE:
1. FIBER-OPTIC SHALL BE 6 STRAND MULTIMODE FIBER-OPTIC CABLE. CONTRACTOR SHALL PROVIDE ALL ASSOCIATED MATERIALS REQUIRED AND SHALL COORDINATE WITH THE VA POLICE TO ENSURE A COMPLETE AND WORKING SYSTEM. CONTRACTOR SHALL PROVIDE DETAILED SHOP DRAWINGS OF ALL ASSOCIATED EQUIPMENT AND WIRING DIAGRAM.

10 EP-110 EMERGENCY PHONE WIRING DIAGRAM
SCALE:NOT TO SCALE

| Revisions: | Date: |
|---|---|

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|---|---|---|---|
| Drawing Title: ELECTRICAL DETAILS I | Phase: CONSTRUCTION DOCUMENTS | Project Title: PARKING LOT REPLACEMENT AND EXPANSION | Project Number: 526-17-107 |
| Approved By: Project Director | | | Building Number: |
| | | Location: 130 WEST KINGSBRIDGE ROAD, BRONX, NEW YORK 10468 | Drawing Number: EP-110 |
| | | Issue Date: 10/22/2019 · Checked: T.J.S. · Drawn: B.F.D. | |

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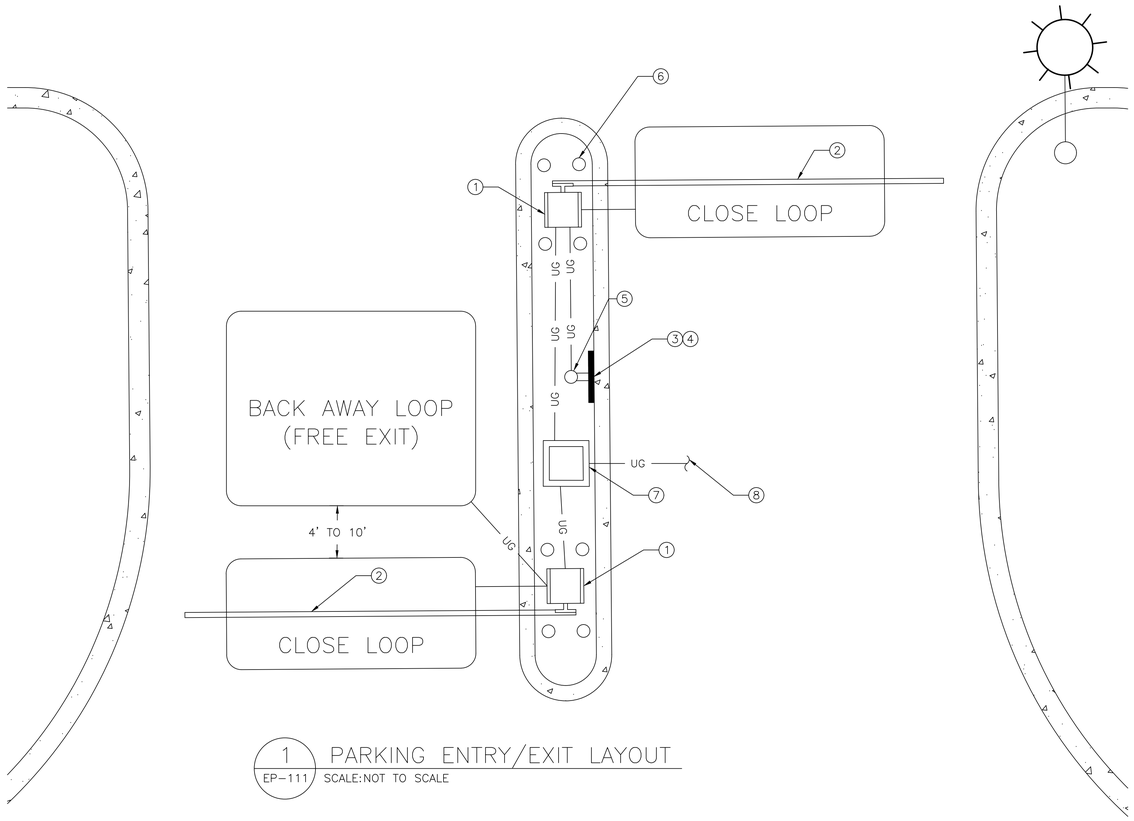


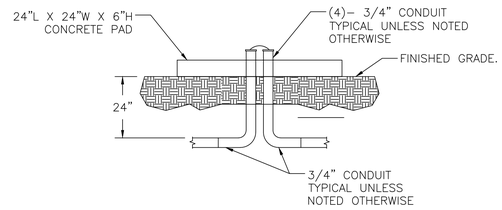

1 EP-111 PARKING ENTRY/EXIT LAYOUT
SCALE: NOT TO SCALE

## PARKING ENTRY GATE KEYED NOTES:

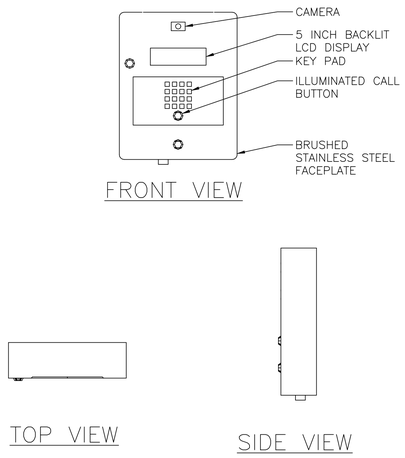
1. PROVIDE ARM TOWER. BASIS OF DESIGN: LIFTMASTER MEGA ARM TOWER. SEE DETAIL 5/EP-111 FOR BARRIER GATE TOWER FOOTPRINT. INSTALL AS PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
2. PROVIDE 12' BARRIER ARM. BASIS OF DESIGN: LIFTMASTER. INSTALL AS PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
3. PROVIDE TELEPHONE ENTRY/ACCESS CONTROL SYSTEM. BASIS OF DESIGN: LIFTMASTER P-11 EL2000SS. PROVIDE DVR-COMPATIBLE LOW-LUX COLOR CAMERA KIT. BASIS OF DESIGN: EL2000DVRCAMKT. TIE INTO THE EXISTING NETWORK VIDEO RECORDING SYSTEM. INSTALL AS PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. INSTALLATION SHALL BE COORDINATED WITH THE VA POLICE AND COR. PROVIDE SHOP DRAWINGS PRIOR TO PURCHASE AND INSTALLATION.
4. ACCESS CONTROL PANEL TO BE MOUNTED 8' AWAY FROM BARRIER ARM.
5. PROVIDE 42" PAD MOUNTED PEDESTAL. SEE DETAIL 4/EP-111.
6. PROVIDE 4 BOLLARDS FOR EACH TOWER.
7. PULL BOX. SEE E-105.
8. SEE E-105 FOR CONDUIT ROUTING.

## GENERAL NOTE:

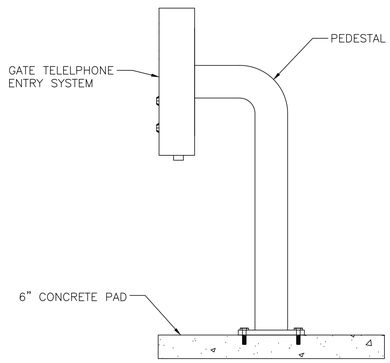
1. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO INSTALLATION, SHALL INSTALL AS PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND COORDINATE WITH THE COR.
2. CONTRACTOR SHALL PROVIDE A SINGLE SHOP DRAWING FOR THE PARKING ARM, LOOP DETECTOR, AND ALL OTHER ASSOCIATED EQUIPMENT FOR THE PARKING ENTRY/EXIT UNIT.
3. PROVIDE COMPUTER (TIE INTO LOCAL POWER IN THE VA POLICE SECURITY OFFICE), COMPUTER SOFTWARE, AND ALL ASSOCIATED EQUIPMENT FOR THE PROVIDED PARKING LOT GATE TO ENSURE THE GATE SYSTEM IS FULL FUNCTIONAL AND CAN BE CONTROLLED REMOTELY AND IS A STANDALONE SYSTEM. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS AND COORDINATE ALL SELECTIONS PRIOR TO PURCHASE OR INSTALLATION WITH THE VA POLICE AND COR.



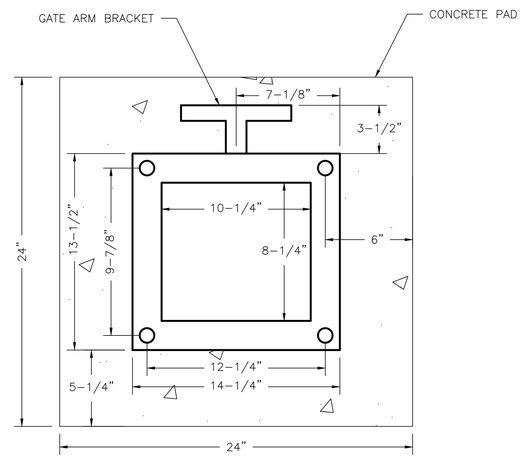

2 EP-111 TYPICAL CONDUIT LAYOUT – CONCRETE PAD FOR GATE OPERATOR
SCALE: NOT TO SCALE



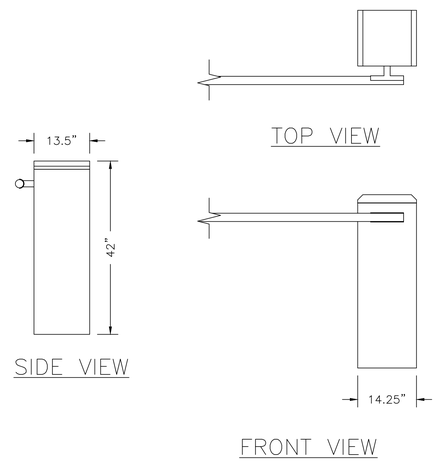

3 EP-111 GATE TELEPHONE ENTRY SYSTEM
SCALE: NOT TO SCALE




4 EP-111 42" PAD-MOUNT PEDESTAL
SCALE: NOT TO SCALE




5 EP-111 BARRIER GATE TOWER FOOTPRINT
SCALE: NOT TO SCALE




6 EP-111 GATE OPERATOR
SCALE: NOT TO SCALE

| Revisions: | Date: |
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| | |
|---|---|
| Drawing Title | ELECTRICAL DETAILS II |
| Phase | CONSTRUCTION DOCUMENTS |
| Project Title | PARKING LOT REPLACEMENT AND EXPANSION |
| Project Number | 526-17-107 |
| Building Number | |
| Approved By: Project Director | |
| Location | 130 WEST KINGSBRIDGE ROAD, BRONX, NEW YORK 10468 |
| Issue Date | 10/22/2019 |
| Checked | T.J.S. |
| Drawn | B.V.N. |
| Drawing Number | EP-111 |

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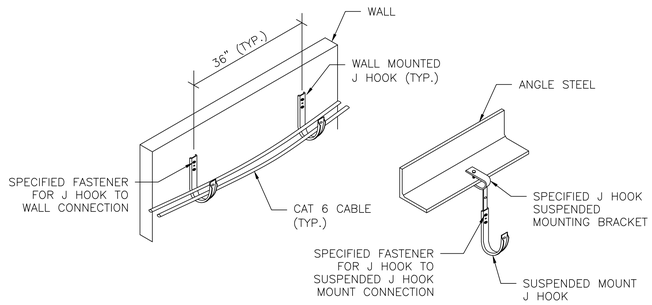
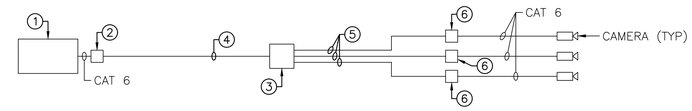



## 1 EP-112 TYPICAL J HOOK WALL AND SUSPENDED MOUNT DETAIL

SCALE: NOT TO SCALE




## 2 EP-112 SECURITY CAMERA ONE-LINE WIRING DIAGRAM

SCALE: NOT TO SCALE

### ONE-LINE KEYED NOTES:

1. POLICE STATION NVR BASIS OF DESIGN SHALL BE AVIGILON HD NVR4 PREMIUM.
2. LAYER 3 NETWORK LOCATED IN THE VA POLICE STATION.
3. PROVIDE HARDENED LAYER 2 NETWORK SWITCH WITHIN FENCED IN ENCLOSURE.
4. 24 STRAND MULTIMODE FIBER-OPTIC CABLE. CONTRACTOR SHALL PROVIDE ALL ASSOCIATED MATERIALS REQUIRED AND SHALL COORDINATE WITH THE VA POLICE TO ENSURE A COMPLETE AND WORKING SYSTEM.
5. 6 STRAND MULTIMODE FIBER-OPTIC CABLE. CONTRACTOR SHALL PROVIDE ALL ASSOCIATED MATERIALS REQUIRED AND SHALL COORDINATE WITH THE VA POLICE TO ENSURE A COMPLETE AND WORKING SYSTEM.
6. PROVIDE POE MEDIA CONVERTER AT THE BASE OF EACH LIGHT POLE. BASIS OF DESIGN SHALL BE VERACITY OUTREACH MAX UNIVERSAL ETHERNET & POE EXTENDER.

### GENERAL NOTES:

1. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR ALL EQUIPMENT. COORDINATE ALL INSTALLATIONS WITH THE COR AND VA POLICE AND SECURITY. CONTRACTOR SHALL ENSURE THE SYSTEM IS COMPLETE AND OPERATIONAL.

### EXISTING PANELBOARD SCHEDULE

DESIGNATION: PLP
BUS: EXISTING
MAIN: 200A BREAKER
TYPE: EATON
VOLTAGE: 208 / 120 V 3ϕ 4W + G
INTERRUPTING RATING: 10,000 AIC
ENCLOSURE:
LOCATION: EXTERIOR OF "TRAILER"
FED BY:
MOUNTING: SURFACE

| CKT NO | POLE | TRIP | WIRE | G | CONDUIT | LOAD | KVA ~ A | | KVA ~ B | | KVA ~ C | | LOAD | CONDUIT | G | WIRE | TRIP | POLE | CKT NO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1 | 20 | – | – | – | EXISTING | 0.00 | 0.00 | — | — | — | — | EXISTING | – | – | – | 20 | 3 | 2 |
| 3 | 1 | 20 | – | – | – | EXISTING | — | — | 0.00 | 0.00 | — | — | | | | | | | 4 |
| 5 | 1 | 20 | – | – | – | EXISTING | — | — | — | — | 0.00 | 0.00 | | | | | | | 6 |
| 7 | 3 | 100 | – | – | – | EXISTING | 0.00 | 0.00 | — | — | — | — | EXISTING | – | – | – | 100 | 3 | 8 |
| 9 | | | | | | | — | — | 0.00 | 0.00 | — | — | | | | | | | 10 |
| 11 | | | | | | | — | — | — | — | 0.00 | 0.00 | | | | | | | 12 |
| 13 | 2 | 50 | – | – | – | SPACE | 0.00 | 0.00 | — | — | — | — | EXISTING | – | – | – | 20 | 1 | 14 |
| 15 | | | | | | | — | — | 0.00 | 0.00 | — | — | EXISTING | – | – | – | 20 | 1 | 16 |
| 17 | 1 | 20 | – | – | – | SPACE | — | — | — | — | 0.00 | 0.00 | SPACE | – | – | – | – | 1 | 18 |
| 19 | 1 | 20 | – | – | – | SPACE | 0.00 | 0.00 | — | — | — | — | SPACE | – | – | – | – | 1 | 20 |
| 21 | 1 | 20 | – | – | – | SPACE | — | — | 0.00 | 0.00 | — | — | SPACE | – | – | – | – | – | 22 |
| 23 | 1 | 20 | – | – | – | SPACE | — | — | — | — | 0.00 | 0.00 | SPACE | – | – | – | – | – | 24 |
| 25 | 1 | 20 | – | – | – | SPACE | 0.00 | 0.00 | — | — | — | — | SPACE | – | – | – | – | – | 26 |
| 27 | 1 | 20 | – | – | – | SPACE | — | — | 0.00 | 0.00 | — | — | SPACE | – | – | – | – | – | 28 |
| 29 | 1 | 20 | – | – | – | SPACE | — | — | — | — | 0.00 | 0.00 | SPACE | – | – | – | – | – | 30 |
| 31 | 1 | 20 | – | – | – | SPACE | 0.00 | 0.00 | — | — | — | — | SPACE | – | – | – | – | – | 32 |
| 33 | 1 | 20 | – | – | – | SPACE | — | — | 0.00 | 0.00 | — | — | SPACE | – | – | – | – | – | 34 |
| 35 | 1 | 20 | – | – | – | SPACE | — | — | — | — | 0.00 | 0.00 | SPACE | – | – | – | – | – | 36 |
| 37 | 1 | 20 | – | – | – | SPACE | 0.00 | 0.00 | — | — | — | — | SPACE | – | – | – | – | – | 38 |
| * 39 | 2 | 20 | 8 | 8 | – | PARKING LOT LIGHTING | — | — | 0.76 | 0.00 | — | — | SPACE | – | – | – | – | – | 40 |
| 41 | | | | | | | — | — | — | — | 0.76 | 1.08 | RECEP-PARKING LOT POLES | – | 8 | 8 | 20 | 1 | 42 * |

NOTE: * INDICATES NEW BREAKERS

CONTRACTOR SHALL COORDINATE WITH THE COR TO DESIGNATE A NEW NAME FOR "EXISTING PANEL" PRIOR TO THE INSTALLATION OF A NEW PANEL SCHEDULE. PROVIDE ENGRAVED PLACARD FOR PANELBOARD.

### LIGHTING FIXTURE SCHEDULE

| TYPE | MANUFACTURER BASIS OF DESIGN | CATALOG NO. | MOUNTING HEIGHT | VOLTAGE | WATTAGE | LUMENS | COLOR TEMP. | FIXTURE FINISH | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|
| A | KIM | CC252P70-96L4K | 25' | 208 | 216 | 18269 | 4K | BLACK | CONTROLLED BY PHOTOCELL |
| B | KIM | CC253P70-96L4K | 25' | 208 | 216 | 17995 | 4K | BLACK | CONTROLLED BY PHOTOCELL |

NOTE: SEE DRAWING E-105

### EXISTING PANELBOARD SCHEDULE

DESIGNATION: PANEL 'EEDPLE'
BUS: EXISTING
MAIN: 60A BREAKER
TYPE: SQUARE D
VOLTAGE: 208 / 120 V 3ϕ 4W + G
INTERRUPTING RATING: 10,000 AIC
ENCLOSURE:
LOCATION: MECHANICAL ROOM
FED BY: EEDPHA
MOUNTING: SURFACE

| CKT NO | POLE | TRIP | WIRE | G | CONDUIT | LOAD | KVA ~ A | | KVA ~ B | | KVA ~ C | | LOAD | CONDUIT | G | WIRE | TRIP | POLE | CKT NO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1 | 20 | – | – | – | ATC PANEL | 0.00 | 0.00 | — | — | — | — | SOLENOID | – | – | – | 20 | 1 | 2 |
| 3 | 1 | 20 | – | – | – | METASYS | — | — | 0.00 | 0.00 | — | — | SOLENOID | – | – | – | 20 | 1 | 4 |
| 5 | 1 | 20 | – | – | – | ATC PANEL | — | — | — | — | 0.00 | 0.00 | SOLENOID | – | – | – | 20 | 1 | 6 |
| 7 | 1 | 20 | – | – | – | CORR RECEPT. VALVES | 0.00 | 0.00 | — | — | — | — | SPARE | – | – | – | 20 | 1 | 8 |
| 9 | 1 | 20 | – | – | – | SPARE | — | — | 0.00 | 0.00 | — | — | SPARE | – | – | – | 20 | 1 | 10 |
| 11 | 1 | 20 | – | – | – | SPARE | — | — | — | — | 0.00 | 0.00 | SPARE | – | – | – | 20 | 1 | 12 |
| 13 | 1 | 20 | – | – | – | SPARE | 0.00 | 0.00 | — | — | — | — | SPARE | – | – | – | 20 | 1 | 14 |
| 15 | 1 | 20 | – | – | – | SPARE | — | — | 0.00 | 0.00 | — | — | SPARE | – | – | – | 20 | 1 | 16 |
| 17 | 1 | 20 | – | – | – | SPARE | — | — | — | — | 0.00 | 0.00 | SPARE | – | – | – | 20 | 1 | 18 |
| 19 | 1 | 20 | – | – | – | SPARE | 0.00 | 0.00 | — | — | — | — | SPARE | – | – | – | 20 | 1 | 20 |
| * 21 | 1 | 20 | 12 | 12 | – | NETWORK SWITCH RECEPTACLE | — | — | 0.00 | 0.00 | — | — | SPARE | – | – | – | 20 | 1 | 22 |
| * 23 | 1 | 20 | 10 | 10 | – | GATES- PARKING LOT ENTRY/EXIT/POE DEVICE | — | — | — | — | 1.18 | 0.00 | SPARE | – | 10 | 10 | 20 | 1 | 24 |
| * 25 | 1 | 20 | 10 | 10 | – | PARKING LOT SECURITY CAMERAS | 0.09 | 0.08 | — | — | — | — | EMERGENCY PHONE | – | 10 | 10 | 20 | 1 | 26 * |
| 27 | 1 | 20 | – | – | – | RECEPTACLES | — | — | 0.00 | 0.00 | — | — | RECEPTACLES | – | – | – | 20 | 1 | 28 |
| 29 | 1 | 20 | – | – | – | RECEPTACLES | — | — | — | — | 0.00 | 0.00 | RECEPTACLES | – | – | – | 20 | 1 | 30 |

NOTE: * INDICATES NEW BREAKERS

GENERAL NOTES

1. ALL PROVIDED BREAKERS SHALL BE OF THE SAME MANUFACTURER AS THE EXISTING PANEL IN WHICH THEY ARE INSTALLED.
2. ALL PROVIDED BREAKERS SHALL HAVE AN AIC RATING EQUIVALENT TO THE PANEL IN WHICH THEY ARE INSTALLED.

NOTE: AT THE COMPLETION OF CONSTRUCTION THE CONTRACTOR SHALL PROVIDE AN UPDATED PANEL SCHEDULE FOR ALL PANELS MODIFIED UNDER THIS PROJECT. PANEL SCHEDULES TO BE REPRINTED. NO WRITE-INS ARE ACCEPTABLE. SCHEDULES TO SHOW VOLTAGE, AMPERAGE CAPACITY, NAME OF PANEL AND POWER SOURCE OF PANEL.

Revisions: Date:

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ARCHITECT/ENGINEER OF RECORD

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL DETAILS AND SCHEDULES

Approved By: Project Director

Phase: CONSTRUCTION DOCUMENTS

Project Title: PARKING LOT REPLACEMENT AND EXPANSION

Location: 130 WEST KINGSBRIDGE ROAD, BRONX, NEW YORK 10468

Issue Date: 10/22/2019

Checked: T.J.S.

Drawn: B.V.N.

Project Number: 526-17-107

Building Number:

Drawing Number: EP-112

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