BUS FACILITY CONCRETE REPAIRS

CITY OF NORTH CHARLESTON, CHARLESTON COUNTY, SC

2023.08.31
PROJECT NUMBER: 215618327
GENERAL NOTES:

1. ISSUED: 08/31/2023

2. REVISION: 08/31/2023

3. U:\215618327\land_development\drawings\sheets\20230906\New Sheetset\sheets\327-C0.2.dwg

4. PROJECT NO.: 2023.08.31

5. TITLE: CITY OF NORTH CHARLESTON, SOUTH CAROLINA

6. CLIENT/PROJECT:

7. DESCRIPTION:

8. ISSUES:

9. APPD:

10. LIQUID LIMIT SHOULD NOT EXCEED 40 PERCENT WHEN TESTED IN ACCORDANCE WITH ASTM D4318.

11. SHALL BE CAPABLE OF BEING COMPACTED TO THE SPECIFIED DEGREE OF COMPACTION WHEN THE MOISTURE CONTENT IS WITHIN 3

12. REMOVED AND REWORKED IMMEDIATELY PRIOR TO CONCRETE PLACEMENT. IF RAINFALL IS EXPECTED AT A TIME WHEN BEARING SOILS IN

13. ENGINEERED FILL MATERIAL

14. MOISTURE CONTENT         (RANGE)

15. SHOP DRAWINGS WILL BE REVIEWED AND RETURNED TO THE CONTRACTOR WITHIN 15 BUSINESS DAYS FROM CONFIRMED RECEIPT BY

16. THIS SHALL BE COMPLETED FOR EVERY SUBMITTAL TO ASSURE AN EXPEDITED REVIEW OF SHOP DRAWINGS.

17. IMPORTED SOILS FOR USE AS ENGINEERED FILL SHALL BE NON-EXCLUSIVE MATERIALS AND SHALL NOT CONTAIN ROCKS OR HARD LUMPS GREATER

18. ENGINEERED  FILL IN LANDSCAPE AREAS

19. THE TOP 6" OF GROUND REMOVED DURING CLEARING AND GRUBBING SHALL BE STOCKPILED AT A SITE DESIGNATED BY THE OWNER

20. ENGINEERED FILL UNDER STRUCTURES

21. MOISTURE CONTENT         (RANGE)

22. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE OWNER'S ENGINEER; 2 SETS OF HARD COPIES AND 1 ELECTRONIC FOR

23. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO EXISTING FACILITIES, ABOVE OR BELOW GROUND, THAT MAY

24. PARTY LIMITS, REMOVING ALL ORGANIC MATTER WHICH CANNOT BE COMPACTED INTO A STABLE MASS. ALL TREES, BRUSH AND DEBRIS

25. ENVIRONMENTAL PROTECTION LAWS. THE FOLLOWING IS NOT TO BE PERCEIVED AS THE ENTIRE SAFETY PROGRAM BUT JUST BASIC

26. LABOR SAFETY REGULATIONS SHALL CONFORM TO THE PROVISIONS SET FORTH BY OSHA IN THE FEDERAL REGISTER OF THE

27. ALL ORGANIC MATERI

28. ABOVE INFORMATION HAS BEEN PROVIDED FOR THE CONTRACTOR'S INFORMATION ONLY AND DOES NOT IMPLY THAT THE OWNER OR

29. PRIVATE AGENCIES HAVING JURISDICTION OVER THE WORK, LATEST EDITIONS.

30. CONTRACTOR AND/OR OWNER IS RESPONSIBLE FOR COORDINATING CONSTRUCTION WITH UTILITY COMPANIES, ADJACENT LAND

31. CALL BEFORE YOU DIG!!!

32. CONSTRUCTION NOT IN ACCORDANCE WITH THESE PLANS OR AS SHOWN ON THE DRAWINGS shall result in the contractor being

33. IMPORTED FILL MATERIALS ARE TO BE NON-EXCLUSIVE MATERIALS AND SHALL NOT CONTAIN ROCKS OR HARD LUMPS GREATER

34. EARTHWORK THAT RESULTS FROM CLEARING AND GRUBBING OR SITE EXCAVATION IS TO BE UTILIZED ON-SITE IF REQUIRED,

35. REMOVED FROM THE SITE AS DIRECTED BY THE OWNER OR THE OWNER'S ENGINEER. EXCAVATED AREAS TO BE BACKFILLED WITH APPROVED

36. SHORING AS NECESSARY. DEWATERING METHODS SHALL BE USED AS REQUIRED TO KEEP TRENCHES DRY WHILE PIPE AND APPURTENANCES ARE

37. PROPOSED SPOT ELEVATIONS REPRESENT FINISHED PAVEMENT OR GROUND SURFACE GRADE UNLESS OTHERWISE NOTED ON DRAWINGS.

38. ALL EXISTING OR CONSTRUCTED MANHOLES, CLEANOUTS, MONUMENTS, GAS VALVES, WATER VALVES AND SIMILAR STRUCTURES SHALL BE

39. DOCUMENTS PREPARED BY OTHERS, PRIOR TO BEGINNING WORK OR DURING CONSTRUCTION, HE/SHE SHALL IMMEDIATELY

40. SHOUL

41. ATTACHMENTS TO DRAWINGS

42. ALL DRAWINGS SHALL BE REVIEWED BY THE CONTRACTOR PRIOR TO CONTINUING WORK. NOTIFICATION TO THE ENGINEER PRIOR TO CONTINUING

43. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE OWNER'S ENGINEER; 2 SETS OF HARD COPIES AND 1 ELECTRONIC FOR

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72. SHOUL
**PHASE I REPAIRS**

**PARCEL**

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**AREA (SQ FT)**

**TOTAL AREA: 685.00 SQ FT**

**REMOVE AND REPLACE DISTRESSED CONCRETE PANELING AT HIGHLIGHTED AREAS.**

**TOTAL AREA: 685.00 SQ FT**

**USE 1-1/4" DIAMETER DOWELS, 18" LONG AND SMOOTH. THE DOWEL HOLES SHOULD BE 9" DEEP AND 1-3/8" IN DIAMETER, INSTALLED AT MID-DEPTH AND SPACED HORIZONTALLY AT 12" IN THE EXISTING SURROUNDING PANELS. THE DOWELS SHOULD BE EPOXIED INTO THE EXISTING SURROUNDING PANELS. THE PORTION OF THE DOWEL BAR NOT EMBEDDED IN EXISTING CONCRETE SHALL BE COATED IN A BOND BREAKER.**

**CONCRETE SHALL BE 4000 PSI WITH FIBER.**

**Legend**

- **N**
- **0**
- **40'**
- **80'**
- **1" = 40'**

- **C1.1**
- **REMOVE & REPLACE - PHASE 1**
- **3**
- **3969 Centre Pointe Dr, Suite 200**
- **North Charleston, SC 29418**
- **Copyright Reserved**

- **The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec.**
- **The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.**

- **Berkeley-Charleston-Dorchester Council of Governments**
- **City of North Charleston, South Carolina**

- **Drawing No. 327-C1.1**
- **Scale 1" = 40'**
- **Revision**
- **Issue Date 2023/09/06**
- **Copyright**
- **Issued By: Ames, Richie**
- **Revision By: Ames, Richie**
- **Copyright 2023.09.06**
- **File Name: 327-C1.1.dwg**
- **By: Ames, Richie**
- **Revision**
- **Issue Date 2023/09/06**
- **Copyright**
- **Issued By: Ames, Richie**
- **Revision By: Ames, Richie**
- **Copyright 2023.09.06**
- **File Name: 327-C1.1.dwg**
**PHASE II REPAIRS**

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**AREA (SQ FT)**

10.00
165.00
66.00
112.00
168.00
168.00
32.00
55.00
91.00
88.00
105.00

**REMOVE AND REPLACE DISTRESSED CONCRETE PANELING AT HIGHLIGHTED AREAS.**

**TOTAL AREA: 1164.00 SQ FT**

**USE 1-1/4" DIAMETER DOWELS, 18" LONG AND SMOOTH. THE DOWEL HOLES SHOULD BE 9" DEEP AND 3.25" IN DIAMETER, INSTALLED AT MID-DEPTH AND SPACED HORIZONTALLY AT 12" IN THE EXISTING SURROUNDING PANELS. THE DOWELS SHOULD BE EPOXYED INTO THE EXISTING SURROUNDING PANELS. THE PORTION OF THE DOWEL BAR NOT EMBEDDED IN EXISTING CONCRETE SHALL BE COATED IN A BOND BREAKER.**

CONCRETE SHALL BE 4000 PSI WITH FIBER.

**ASSUME ALL PANELS ARE 7" THICK.**
REMOVE AND REPLACE DISTRESSED CONCRETE PANELING AT HIGHLIGHTED AREAS.

TOTAL AREA: 514.00 SQ FT

USE 1-1/4" DIAMETER DOWELS, 16" LONG AND SMOOTH. THE DOWEL HOLES SHOULD BE 9" DEEP AND 1-3/8" IN DIAMETER, INSTALLED AT MID-DEPTH AND SPACED HORIZONTALLY AT 12" IN THE EXISTING SURROUNDING PANELS. THE DOWELS SHOULD BE EPOXYED INTO THE EXISTING SURROUNDING PANELS. THE PORTION OF THE DOWEL BAR NOT EMBEDDED IN EXISTING CONCRETE SHALL BE COATED IN A BOND BREAKER.

CONCRETE SHALL BE 4000 PSI WITH FIBER.
ASSUME ALL PANELS ARE 7” THICK.
TOTAL AREA: 608.00 SQ FT

FILL DETECTED Voids USING HIGH-DENSITY POLYURETHANE INJECTION (HDPI)

USE 1-1/4” DIAMETER DOWELS, 18” LONG AND SMOOTH. THE DOWEL Holes SHOULD BE 9” DEEP AND 1-3/8” IN DIAMETER, INSTALLED AT MID-DEPTH AND SPACED HORIZONTALLY AT 12” IN THE EXISTING SURROUNDING PANELS. THE DOWELS SHOULD BE EPOXIED INTO THE EXISTING SURROUNDING PANELS. THE PORTION OF THE DOWEL BAR NOT EMBEDDED IN EXISTING CONCRETE SHALL BE COATED IN A BOND BREAKER.

CONCRETE SHALL BE 4000 PSI WITH FIBER.
RAISE AND LEVEL EACH MARKED PANEL USING HIGH-DENSITY POLYURETHANE INJECTION (HDPI)

TOTAL CONCRETE PANELS: 39

USE 1-1/4" DIAMETER DOWELS, 18" LONG AND SMOOTH. THE DOWEL HOLES SHOULD BE 9" DEEP AND 1-3/8" IN DIAMETER, INSTALLED AT MID-DEPTH AND SPACED HORIZONTALLY AT 12" IN THE EXISTING SURROUNDING PANELS. THE DOWELS SHOULD BE EPOXYED INTO THE EXISTING SURROUNDING PANELS. THE PORTION OF THE DOWEL BAR NOT EMBEDDED IN EXISTING CONCRETE SHALL BE COATED IN A BOND BREAKER.

CONCRETE SHALL BE 4000 PSI WITH FIBER.

ASSUME ALL PANELS ARE 7" THICK.