PR 21-05 AND PR 22-05 TRAIL SYSTEM REPAIR

CITY OF COUNCIL BLUFFS, IOWA

ESTIMATED QUANTITIES

ITEM NO.	ITEM CODE	DESCRIPTION	ESTIMATED QUANTITY
DIVISION I: VALLEY VIEW TRAIL REHAB			
1-1.	8030-1.08-A	TEMPORARY TRAFFIC CONTROL	1.00 LS
1-2.		SURFACE PREPARATION	8,854.00 SY
1-3.		CRACK CLEANING AND SEALING	8,854.00 SY
1-4.	7021-1.08-B	HMA OVERLAY, 2 INCHES	8,854.00 SY
1-5.	7030-1.08-E	TRAIL, PCC, 6 INCHES	36.00 SY
1-6.	7030-1.08-G	DETECTABLE WARNINGS	48.00 SF
1-7.	7040-1.08-A	PATCH, FULL-DEPTH REPAIR, HMA	20.00 SY
1-8.	7040-1.08-C	HMA SURFACE PATCH	90.00 SF
1-9.		PATCH BY COUNT	10.00 EA
1-10.	7040-1.08-G	MILLING	2,039.00 SY
1-11.	7040-1.08-H	REMOVAL OF HMA RECREATIONAL TRAIL	36.00 SY
1-12.		GRANULAR SHOULDERS, TYPE A	83.00 TN
1-13.		EARTH SHOULDER CONSTRUCTION	9,460.00 LF
1-14.		ADJUST WATER VALVE BOX	1.00 EA
1-15.	8020-1.08-B	PAINTED PAVEMENT MARKINGS, SOLVENT/WATERBORNE	5.00 STA
DIVISION II: IOWA RIVERFRONT TRAIL REHAB			
2-1.	8030-1.08-A	TEMPORARY TRAFFIC CONTROL	1.00 LS
2-2.		SURFACE PREPARATION	2,859.00 SY
2-3.		CRACK CLEANING AND SEALING	2,859.00 SY
2-4.	7021-1.08-B	HMA OVERLAY, 2 INCHES	2,859.00 SY
2-5.	7030-1.08-E	TRAIL, PCC, 6 INCHES	169.00 SY
2-6.	7030-1.08-G	DETECTABLE WARNINGS	132.00 SF
2-7.	7040-1.08-A	PATCH, FULL-DEPTH REPAIR, HMA	10.00 SY
2-8.	7040-1.08-C	HMA SURFACE PATCH	45.00 SF
2-9.		PATCH BY COUNT	5.00 EA
2-10.	7040-1.08-G	MILLING	56.00 SY
2-11.	7040-1.08-H	REMOVAL OF HMA RECREATIONAL TRAIL	169.00 SY
2-12.		GRANULAR SHOULDERS, TYPE A	3.00 TN
2-13.		EARTH SHOULDER CONSTRUCTION	5,105.00 LF
2-14.		ADJUST WATER VALVE BOX	3.00 EA
2-15.		ADJUST TRAFFIC SIGNAL BOX	1.00 EA



ESTIMATE REFERENCE NOTES

ITEM NO.	ITEM CODE	DESCRIPTION
DIVISION I: VALLEY VIEW TRAIL REHAB		
1-1.	8030-1.08-A	TEMPORARY TRAFFIC CONTROL TRAFFIC CONTROL SHALL BE USED FOR ALL WORK ON THE SHOULDER OF OR AFFECTING THROUGH TRAFFIC ON THE ADJACENT ROADWAYS. ITEM SHALL INCLUDE APPLICABLE TRAFFIC CONTROL IN ACCORDANCE WITH IDOT STANDARDS. THROUGH TRAFFIC ON ALL ADJACENT ROADWAYS SHALL BE MAINTAINED AT ALL TIMES.
1-2.		SURFACE PREPARATION THE ENTIRE TRAIL SURFACE SHALL BE PREPARED PER THE REQUIREMENTS IN IDOT SECTION 2212. ALL WEEDS, VEGETATION, AND DEBRIS SHALL BE REMOVED FROM CRACKS AND JOINTS WITHIN THE TRAIL. THE EDGES OF THE TRAIL SHALL BE CLEAR OF VEGETATION OVERGROWTH, SOIL, AND OTHER DEBRIS. GROUND STERILIZER SHALL BE APPLIED TO ALL VEGETATION WITHIN THE CRACKS. MEASUREMENT AND PAYMENT WILL BE IN SQUARE YARDS FOR THE ENTIRE TRAIL SURFACE THAT IS PREPARED AND OVERLAYED.
1-3.		CRACK CLEANING AND SEALING ALL JOINTS AND CRACKS IN THE EXISTING TRAIL SHALL BE CLEANED AND SEALED PER THE REQUIREMENTS IN IDOT SECTION 2544. MEASUREMENT AND PAYMENT WILL BE IN SQUARE YARDS FOR ALL CRACKS WITHIN THE ENTIRE TRAIL SURFACE THAT ARE CLEANED, SEALED, AND OVERLAYED.
1-4.	7021-1.08-B	HMA OVERLAY, 2 INCHES ITEM SHALL INCLUDE TACK, MIX, AND BINDER. MIX SHALL BE 1/2"PG64-34, 300,000 ESAL. THE EDGES OF THE TRAIL SHALL BE ROLLED DOWN SO THERE IS NO ABRUPT EDGE BETWEEN THE ASPHALT TRAIL AND EXISTING GRADE ADJACENT TO THE TRAIL.
1-5. 1-6.	7030-1.08-E 7030-1.08-G	TRAIL, PCC, 6 INCHES DETECTABLE WARNINGS ITEMS INCLUDED FOR THE RAMP LOCATIONS SHOWN. PCC PAVEMENT SHALL BE PER THE CITY OF COUNCIL BLUFFS SUPPLEMENTAL SPECIFICATIONS. PCC SHALL INCLUDE RT JOINTS WHERE RAMPS ABUT CONCRETE PAVEMENT. DETECTIBLE WARNING PANELS SHALL BE 2'X 4', COMPOSITE, RED, REMOVABLE PANELS MANUFACTURED BY DETECTILE, OR APPROVED EQUAL.
1-7. THRU 1-9.	7040-1.08-A 7040-1.08-C	PATCH, FULL-DEPTH REPAIR, HMA HMA SURFACE PATCH PATCH BY COUNT ITEMS INCLUDED WHERE PATCHES MAY BE REQUIRED. CONTRACTOR SHALL CONFIRM ANY LOCATIONS WITH OWNER PRIOR TO PROCEEDING WITH WORK. MEASUREMENT AND PAYMENT FOR PATCHES BY COUNT WILL BE FOR EACH LOCATION OF ALL FULL-DEPTH AND SURFACE PATCHES.
1-10.	7040-1.08-G	MILLING ITEM INCLUDED FOR THE TRANSITION LOCATIONS WHERE THE TRAIL OVERLAY STARTS AND ENDS AS WELL AS THE SHOULDER AREAS IMMEDIATELY ADJACENT THE ROADWAY.
1-11.	7040-1.08-H	REMOVAL OF HMA RECREATIONAL TRAIL ITEM INCLUDED FOR THE RAMP LOCATIONS SHOWN.
1-12. 1-13.		GRANULAR SHOULDERS, TYPE A EARTH SHOULDER CONSTRUCTION ITEMS SHALL BE USED WHERE DIRECTED BY THE OWNER TO SHOULDER THE TRAIL AS REQUIRED.
1-14.		ADJUST WATER VALVE BOX ITEM INCLUDED TO RAISE ANY WATER VALVE BOXES TO MATCH THE NEW HMA OVERLAY SURFACE WITHIN THE TRAIL. CONTRACTOR SHALL COORDINATE WITH BRIAN CADY AT THE CBWW WHEN ADJUSTING AND TO PROVIDE DIFFERENT RISER SECTIONS IF NECESSARY.
1-15.	8020-1.08-B	PAINTED PAVEMNT MARKINGS, SOLVENT/WATERBORNE ITEM INCLUDED TO REPLACE THE PAVEMENT MARKINGS ON THE SHOULDER SOUTH OF MALL DRIVE.

ESTIMATE REFERENCE NOTES

ITEM NO.	ITEM CODE	DESCRIPTION
. DIVISION II: IOWA RIVERFRONT TRAIL REHAB		
2-1.	8030-1.08-A	TEMPORARY TRAFFIC CONTROL TRAFFIC CONTROL SHALL BE USED FOR ALL WORK ON THE SHOULDER OF OR AFFECTING THROUGH TRAFFIC ON THE ADJACENT ROADWAYS. ITEM SHALL INCLUDE APPLICABLE TRAFFIC CONTROL IN ACCORDANCE WITH IDOT STANDARDS. THROUGH TRAFFIC ON ALL ADJACENT ROADWAYS SHALL BE MAINTAINED AT ALL TIMES.
2-2.		SURFACE PREPARATION THE ENTIRE TRAIL SURFACE SHALL BE PREPARED PER THE REQUIREMENTS IN IDOT SECTION 2212. ALL WEEDS, VEGETATION, AND DEBRIS SHALL BE REMOVED FROM CRACKS AND JOINTS WITHIN THE TRAIL. THE EDGES OF THE TRAIL SHALL BE CLEAR OF VEGETATION OVERGROWTH, SOIL, AND OTHER DEBRIS. GROUND STERILIZER SHALL BE APPLIED TO ALL VEGETATION WITHIN THE CRACKS.
2-3.		CRACK CLEANING AND SEALING ALL JOINTS AND CRACKS IN THE EXISTING TRAIL SHALL BE CLEANED AND SEALED PER THE REQUIREMENTS IN IDOT SECTION 2544. MEASUREMENT AND PAYMENT WILL BE IN SQUARE YARDS FOR ALL CRACKS WITHIN THE ENTIRE TRAIL SURFACE THAT ARE CLEANED, SEALED, AND OVERLAYED.
2-4.	7021-1.08-B	HMA OVERLAY, 2 INCHES ITEM SHALL INCLUDE TACK, MIX, AND BINDER. MIX SHALL BE 1/2"PG64-34, 300,000 ESAL. THE EDGES OF THE TRAIL SHALL BE ROLLED DOWN SO THERE IS NO ABRUPT EDGE BETWEEN THE ASPHALT TRAIL AND EXISTING GRADE ADJACENT TO THE TRAIL.
2-5. 2-6.	7030-1.08-E 7030-1.08-G	TRAIL, PCC, 6 INCHES DETECTABLE WARNINGS ITEM INCLUDED FOR THE NEW TRIAL AND RAMP LOCATIONS SHOWN. PCC PAVEMENT SHALL BE PER THE CITY OF COUNCIL BLUFFS SUPPLEMENTAL SPECIFICATIONS. PCC SHALL INCLUDE RT JOINTS WHERE RAMPS ABUT CONCRETE PAVEMENT. DETECTIBLE WARNING PANELS SHALL BE 2'X 4', COMPOSITE, RED, REMOVABLE PANELS MANUFACTURED BY DETECTILE, OR APPROVED EQUAL.
2-7. THRU 2-9.	7040-1.08-A 7040-1.08-C	PATCH, FULL-DEPTH REPAIR, HMA HMA SURFACE PATCH PATCH BY COUNT ITEMS INCLUDED WHERE PATCHES MAY BE REQUIRED. CONTRACTOR SHALL CONFIRM ANY LOCATIONS WITH OWNER PRIOR TO PROCEEDING WITH WORK. MEASUREMENT AND PAYMENT FOR PATCHES BY COUNT WILL BE FOR EACH LOCATION OF ALL FULL-DEPTH AND SURFACE PATCHES.
2-10.	7040-1.08-G	MILLING ITEM INCLUDED FOR THE TRANSITION LOCATIONS WHERE THE TRAIL OVERLAY STARTS AND ENDS.
2-11.	7040-1.08-H	REMOVAL OF HMA RECREATIONAL TRAIL ITEM INCLUDED FOR THE NEW TRIAL AND RAMP LOCATIONS SHOWN.
2-12. 2-13.		GRANULAR SHOULDERS, TYPE A EARTH SHOULDER CONSTRUCTION ITEMS SHALL BE USED WHERE DIRECTED BY THE OWNER TO SHOULDER THE TRAIL AS REQUIRED.
2-14.		ADJUST WATER VALVE BOX ITEM INCLUDED TO RAISE ANY WATER VALVE BOXES TO MATCH THE NEW HMA OVERLAY SURFACE WITHIN THE TRAIL. CONTRACTOR SHALL COORDINATE WITH BRIAN CADY AT THE CBWW WHEN ADJUSTING AND TO PROVIDE DIFFERENT RISER SECTIONS IF NECESSARY.
2-15.		ADJUST TRAFFIC SIGNAL BOX ITEM INCLUDED TO RAISE THE TRAFFIC SIGNAL BOX TO MATCH THE NEW HMA OVERLAY SURFACE WITHIN THE TRAIL AT THE MEDIAN IN NORTH 16TH STREET MEDIAN AREA. THE EXISTING STEEL BOX CAN BE RE-USED.

SPECIFICATIONS

THE URBAN STANDARD SPECIFICATIONS FOR PUBLIC IMPROVEMENTS, 2021, AND CITY OF COUNCIL BLUFFS SUPPLEMENTAL SPECIFICATIONS 2021, SHALL APPLY TO THIS PROJECT.

INDEX

PAGE NO.	DESCRIPTION
A.01	TITLE SHEET
D.01-.03	TRAIL REPAIR PLAN SHEETS

THESE DOCUMENTS SHALL NOT BE SCANNED, COPIED, OR DUPLICATED IN ANY MANNER.

LICENSED PROFESSIONAL ENGINEER
JOHN E. JORGENSEN
12855
IOWA

I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.

JOHN E. JORGENSEN 2/18/21

My license renewal date is December 31, 2021.

Pages or sheets covered by this seal:
A.01, D.01-.03

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hgm ASSOCIATES INC.
640 FIFTH AVENUE COUNCIL BLUFFS, IOWA
PHONE: (712) 323-0530

JNS drawn	BJR designed	JEJ approved	FEB.'21 date	revision

project: PR-21-05 AND PR-22-05 TRAIL SYSTEM REPAIR
client: COUNCIL BLUFFS PARK AND RECREATION
sheet: TITLE SHEET

project no. 151020
sheet A.01

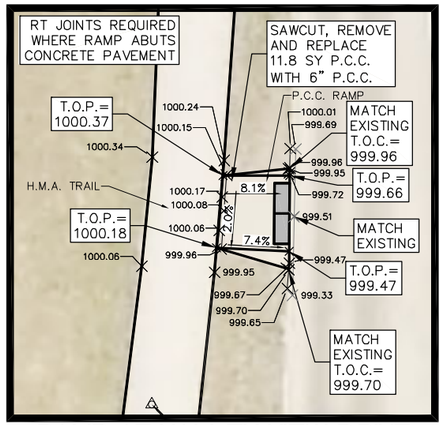
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CONTRACTOR SHALL COORDINATE THE ADJUSTMENT OF ALL WATER VALVE BOXES WITH C.B.W.W. – BRIAN CADY – (712) 326–4910

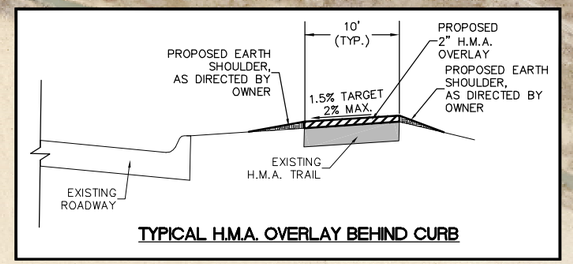
DIVISION 1
ALL WORK SHALL BE COMPLETED BY JUNE 30, 2021

LEGEND
×996.42 – EXISTING SPOT ELEVATIONS
– DETECTABLE WARNING PANELS

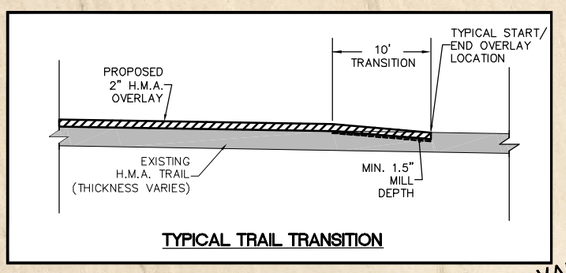


RAMP AT VALLEY VIEW DRIVE AND GREENVIEW ROAD

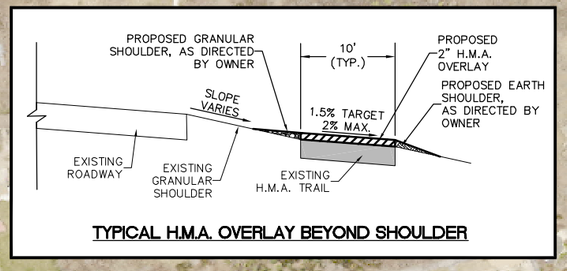
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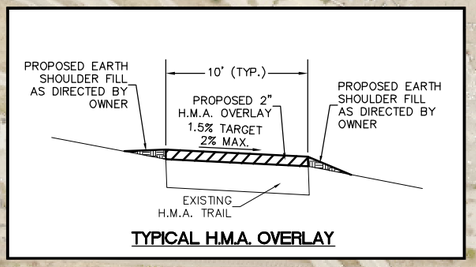
TYPICAL H.M.A. OVERLAY BEHIND CURB



TYPICAL TRAIL TRANSITION



TYPICAL H.M.A. OVERLAY BEYOND SHOULDER



TYPICAL H.M.A. OVERLAY

INTERSTATE 80
MADISON AVENUE
MALL OF THE BLUFFS
680 L.F. H.M.A. OVERLAY
TRANSITION START/END H.M.A. OVERLAY
TRANSITION START/END H.M.A. OVERLAY
TRANSITION START/END H.M.A. OVERLAY
FAMILY FARE SUPERMARKET
SHOULDER
CURB SECTION
2,234 L.F. H.M.A OVERLAY BEHIND CURB
VALLEY VIEW DRIVE
REMOVE AND REPLACE P.C.C. RAMP. SEE DETAIL THIS SHEET.
TRANSITION START/END H.M.A. OVERLAY
2,231 L.F. H.M.A. OVERLAY BEYOND SHOULDER
P.C.C. RAMP AT HIGHWAY 92 TO BE CONSTRUCTED BY IOWA DOT WITH HIGHWAY 92 RESURFACING PROJECT. CONTRACTOR TO COORDINATE WITH DAVE DORSETT 712–366–0568
HIGHWAY 92
LONGVIEW DRIVE
GREENVIEW ROAD
LONGVIEW DRIVE
0 100 200 400
Feet

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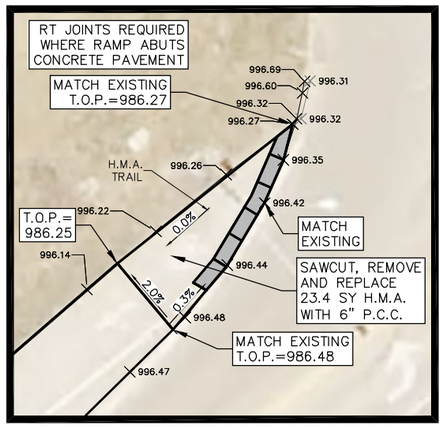
JNS drawn
BJR designed
JFJ approved
FEB '21 date
date revision

project PR–21–05 AND PR–22–05 TRAIL SYSTEM REPAIR
client COUNCIL BLUFFS PARK AND RECREATION
sheet VALLEY VIEW TRAIL – SOUTH OF I–80

project no. 151020
sheet D.01

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SOUTHWEST RAMP AT MALL DRIVE AND VALLEY VIEW DRIVE

SCALE: 1"=10'

LEGEND

996.42 – EXISTING SPOT ELEVATIONS

– DETECTABLE WARNING PANELS

DIVISION 1
ALL WORK SHALL BE COMPLETED BY JUNE 30, 2021

CONTRACTOR SHALL COORDINATE THE ADJUSTMENT OF ALL WATER VALVE BOXES WITH C.B.W.W. – BRIAN CADY – (712) 326-4910

BENNETT AVENUE

MALL DRIVE

FRANKLIN AVENUE

WEDGEWOOD DRIVE

POST OFFICE

VALLEY VIEW PARK

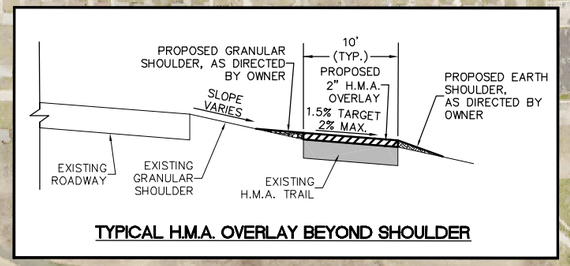
CHI HEALTH CLINIC

FAMILY FARE SUPERMARKET

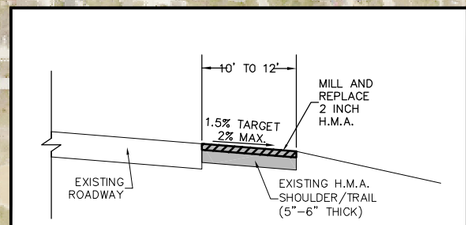
LONGVIEW DRIVE

VALLEY VIEW DRIVE

INTERSTATE 80



TYPICAL H.M.A. OVERLAY BEYOND SHOULDER



TYPICAL TRAIL ON SHOULDER

SAWCUT, REMOVE AND REPLACE WITH P.C.C. RAMP. SEE DETAIL THIS SHEET.

1,079 L.F. H.M.A OERLAY BEYOND SHOULDER

1,165 L.F. MILL AND REPLACE H.M.A. ON SHOULDER

TRANSITION START/END H.M.A. OVERLAY

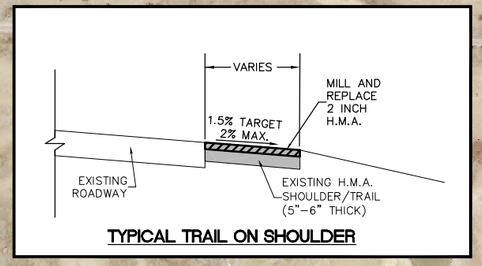
TRANSITION START/END H.M.A. OVERLAY

TRANSITION START/END H.M.A. OVERLAY

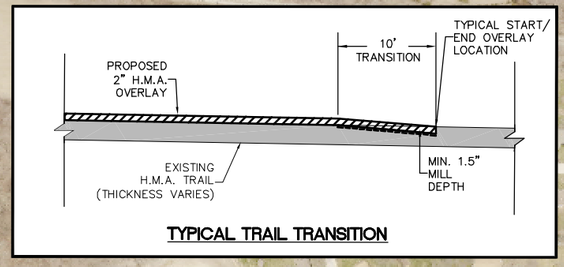
TRANSITION START/END H.M.A. OVERLAY

TRANSITION START/END H.M.A. OVERLAY

322 L.F. MILL AND REPLACE H.M.A. ON SHOULDER



TYPICAL TRAIL ON SHOULDER



TYPICAL TRAIL TRANSITION

0 100 200 400
Feet

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JNS drawn
BJR designed
JFJ approved
EFA '21 date
revision

project PR-21-05 AND PR-22-05 TRAIL SYSTEM REPAIR

client COUNCIL BLUFFS PARK AND RECREATION

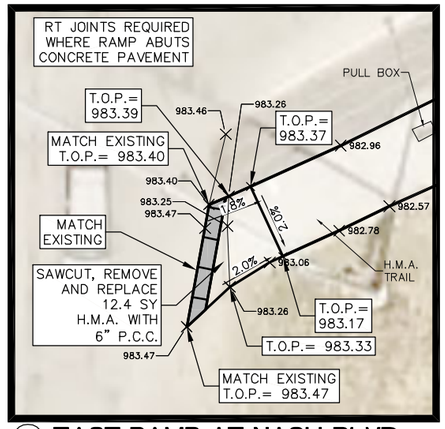
sheet **VALLEY VIEW TRAIL - NORTH OF I-80**

project no. 151020

sheet **D.02**

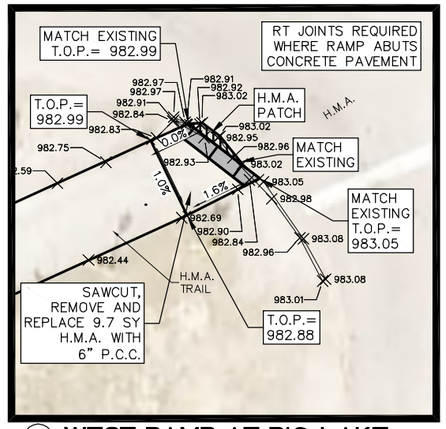
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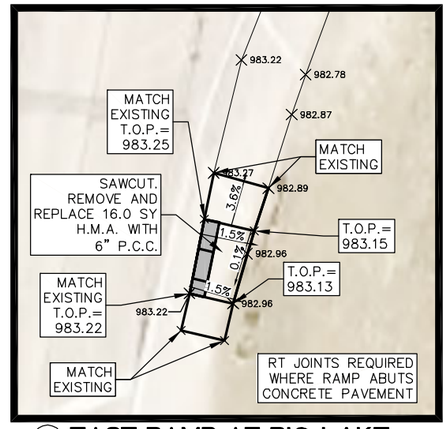
① EAST RAMP AT NASH BLVD AND 16TH STREET

SCALE: 1"=10'



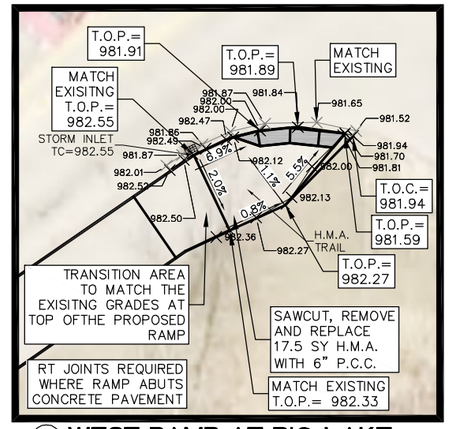
② WEST RAMP AT BIG LAKE ROAD AND 16TH STREET

SCALE: 1"=10'



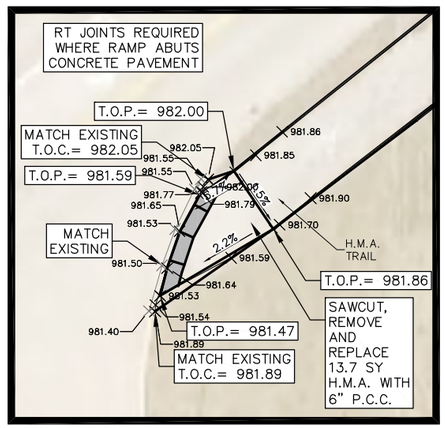
③ EAST RAMP AT BIG LAKE ROAD AND 16TH STREET

SCALE: 1"=10'



④ WEST RAMP AT BIG LAKE ROAD AND 15TH STREET

SCALE: 1"=10'



⑤ EAST RAMP AT BIG LAKE ROAD AND 15TH STREET

SCALE: 1"=10'

DIVISION 2
WORK CAN NOT BEGIN UNTIL JULY 1, 2021

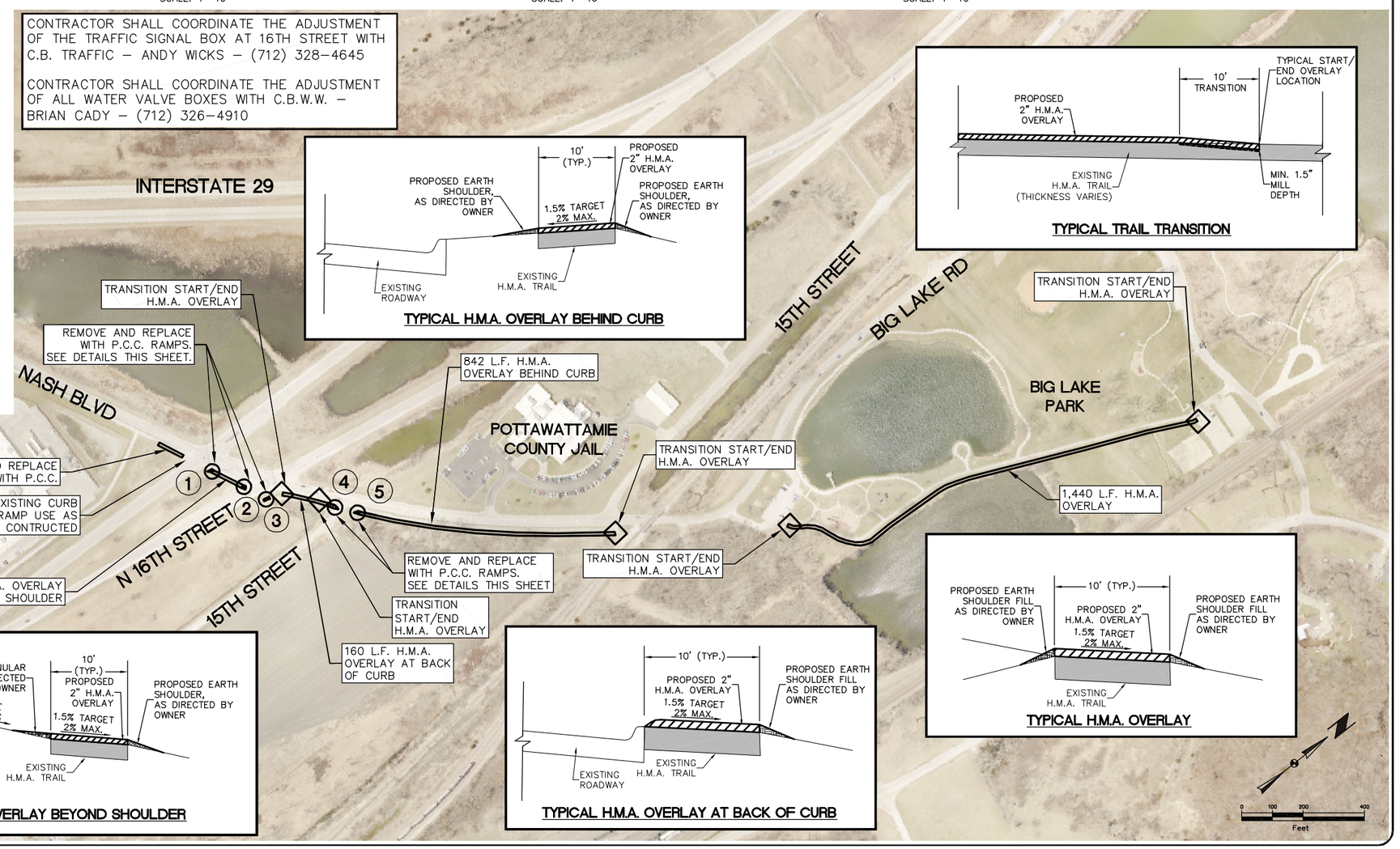
LEGEND

×996.42 – EXISTING SPOT ELEVATIONS

– DETECTABLE WARNING PANELS

CONTRACTOR SHALL COORDINATE THE ADJUSTMENT OF THE TRAFFIC SIGNAL BOX AT 16TH STREET WITH C.B. TRAFFIC – ANDY WICKS – (712) 328-4645

CONTRACTOR SHALL COORDINATE THE ADJUSTMENT OF ALL WATER VALVE BOXES WITH C.B.W.W. – BRIAN CADY – (712) 326-4910



TYPICAL TRAIL TRANSITION

TYPICAL H.M.A. OVERLAY BEHIND CURB

TYPICAL H.M.A. OVERLAY BEYOND SHOULDER

TYPICAL H.M.A. OVERLAY AT BACK OF CURB

TYPICAL H.M.A. OVERLAY

0 100 200 400 Feet

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PHONE: (712) 323-0530

JNS			drawn
BJR			designed
JFJ			approved
FEB '21			date
date	revision		

project: PR-21-05 AND PR-22-05 TRAIL SYSTEM REPAIR
client: COUNCIL BLUFFS PARK AND RECREATION
sheet: IOWA RIVERFRONT TRAIL

project no. 151020
sheet D.03

hgm:
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