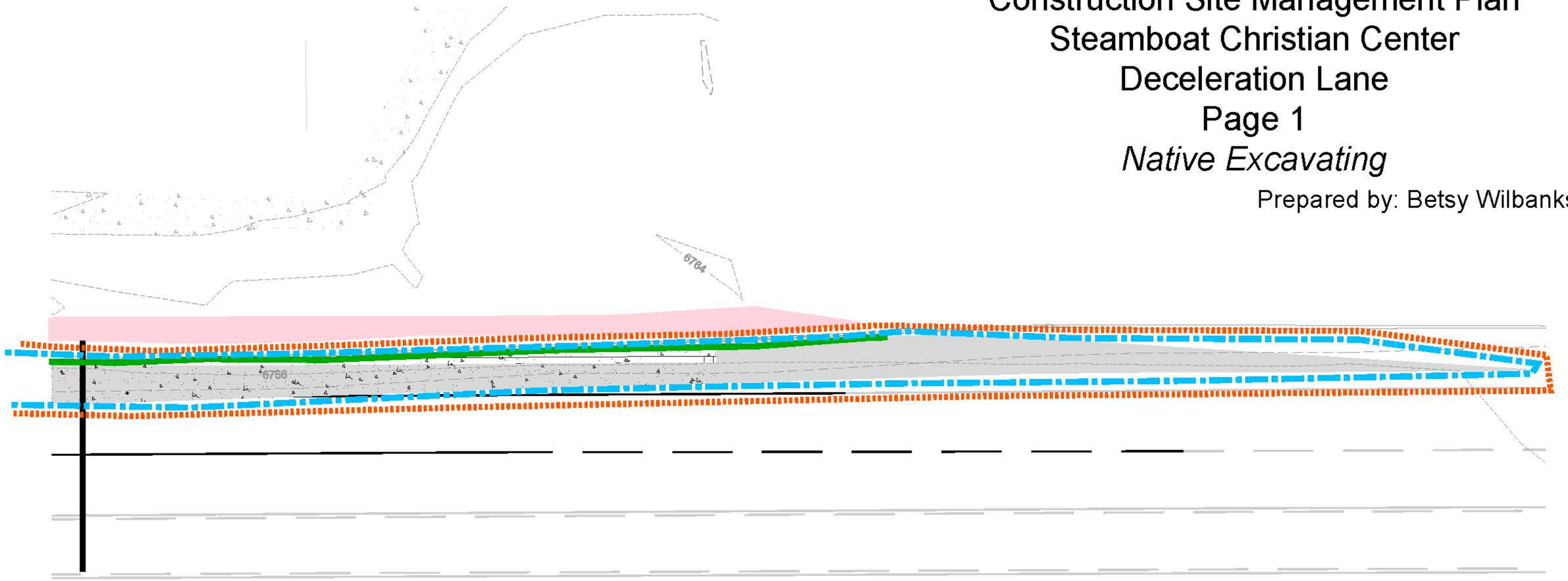
Construction Site Management Plan
Steamboat Christian Center
Deceleration Lane
Page 1
Native Excavating

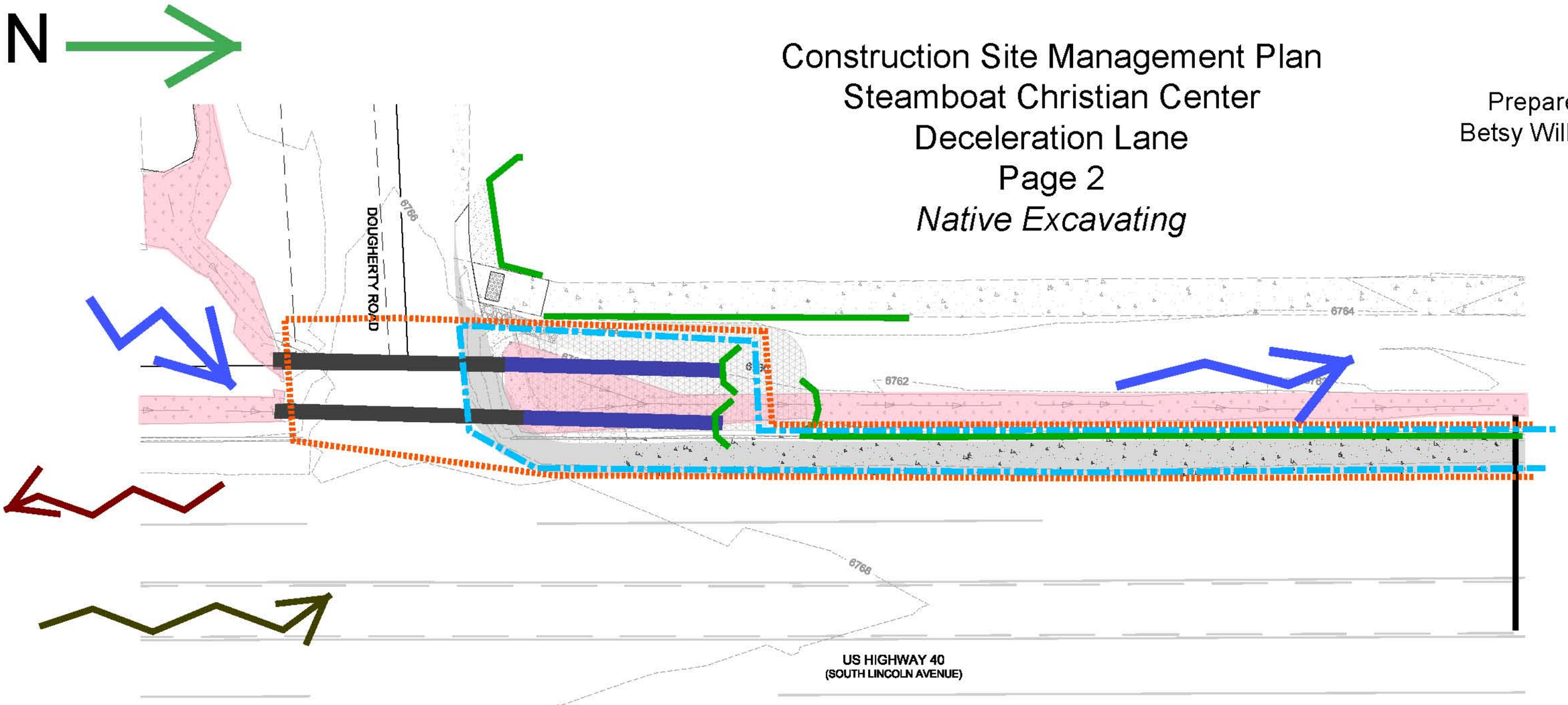
Prepared by: Betsy Wilbanks



Typical Ingress
Typical Egress
Existing Culverts
New Culverts
Straw Wattles
Designated Wetlands
Direction of Overland Flow
Site Boundary
Area of Disturbance

Construction Site Management Plan
Steamboat Christian Center
Deceleration Lane
Page 2
Native Excavating

Prepared by:
Betsy Wilbanks



Typical Ingress
Typical Egress
Existing Culverts
New Culverts
Straw Wattles
Designated Wetlands
Direction of Overland Flow
Site Boundary
Area of Disturbance

CSMP
Steamboat Christian Center Deceleration Lane
Job #192

Standard Notes for Construction Site Management Plans:

1. This plan shall be kept on site at all times and updated to reflect any changes.
2. Concrete waste and washout water from mixing trucks shall be contained on site, removed from the site, and properly disposed of. Materials shall not enter state waters.
3. Contractor is responsible for installing and maintaining temporary erosion and sediment control during construction and establishing any required permanent Best Management Practices (BMPs) to prevent release of pollutants from the project site.
4. Contractor is responsible for complying with all local, state, and federal laws. In addition, contractor must obtain required permits.
5. Clearing or grading shall not begin until all sediment control devices have been installed.
6. The contractor shall promptly remove all sediment, mud, and construction debris that may accumulate in the right of way, private property, or waterways as a result of the construction activities.
7. All ingress, egress, and vehicle access points onto the disturbed site must be stabilized with a vehicle tracking control pad. Access shall only be via approved locations, as shown on the approved CSMP.
8. Soil stabilization measures shall be in place and/or areas are to be re-vegetated if: 1) stockpiles are inactive for more than 30 days or 2) the disturbance extends past one growing season.
9. Inlet protection shall be installed in conjunction with storm drain inlets where the drainage area is not vegetated.
10. BMPs shall be used, modified, and maintained whenever necessary to reflect current conditions. BMPs shall be inspected weekly and after every precipitation event. Accumulated sediment shall be removed from the BMPs when the sediment level reaches half of the height of the BMP.
11. Emergency access must be kept obstacle free and passable at all times.
12. Contractor shall coordinate with the City Construction Site Manager regarding special permitting for any work done in the Right of Way (ROW). No work shall be conducted in the ROW between November 1 and April 1 without prior approval from the director of Public Works.
13. Where required as part of the ROW permit or where site work affects the pedestrian or vehicle travel way, traffic control shall be installed. All traffic control shall be in accordance with the Manual on Uniform Traffic Control Devices, latest edition.
14. Sidewalks adjacent to construction shall be maintained by the contractor for public use. In areas where construction is taking place next to the sidewalk and overhead hazards are possible, contractor is responsible for installing and maintaining sidewalk protection.

Site Specific Notes:

1. The area of disturbance is marked on the site map. It will encompass the entirety of the site and is approximately 0.26 acres.
2. Employee parking will occur on-site.
3. Wattles will installed prior to the commencement of work to protect existing drainage ditches. All wattles will be the standard 9" x 25'.
4. Rock socks will be used on impervious surfaces to limit runoff from stockpiles.
5. Concrete trucks will be directed to wash out in their own yard.
    a. Should this prove to be not feasible a concrete washout area will be constructed at a location to be determined at that time.
6. Dust control will be managed via good housekeeping practices, including, but not limited to, a water truck and a street sweeper.
7. Primary ingress/egress will be at the intersection of US Highway 40 and Dougherty Road.
8. Stockpiles, dumpster, and port-a-let will all be located in the parking lot behind the Steamboat Christian Center.
9. Phasing will be as follows:
    a. Site Layout and Mobilization
        i. Potential Pollutants
            1. Equipment Maintenance and Fueling
            2. Petroleum Based Products
            3. Site Entry and Exit
        ii. BMPs (See associated BMP Fact Sheets)
            1. Good Housekeeping Practices
            2. Spill Kit
            3. Stabilized Staging Area
    b. Installation of Traffic Control
        i. Potential Pollutants
            1. Activities by Others
            2. Construction Parking
            3. Site Entry and Exit
        ii. BMPs (See associated BMP Fact Sheets)
            1. Protection of Existing Vegetation
            2. Good Housekeeping
    c. Installation of Erosion Control
        i. Potential Pollutants
            1. Construction Parking
            2. Disturbed Soil Flat
            3. Equipment Maintenance and Fueling
            4. Portable Toilet
            5. Site Entry and Exit
        ii. BMPs (See associated BMP Fact Sheets)
            1. Protection of Existing Vegetation

2. Good Housekeeping
3. Spill Kit
4. Stabilized Staging Area
5. Straw Wattle

d. Asphalt Milling
    i. Potential Pollutants
        1. Activities by Others
        2. Construction Parking
        3. Equipment Maintenance and Fueling
        4. Petroleum Based Products
        5. Portable Toilet
    ii. BMPs (See associated BMP Fact Sheets)
        1. Good Housekeeping
        2. Spill Kit
        3. Straw Wattle
e. MSE Wall Preparation
    i. Potential Pollutants
        1. Construction Parking
        2. Disturbed Soil Flat
        3. Equipment Maintenance and Fueling
        4. Petroleum Based Products
        5. Portable Toilet
        6. Stockpile
        7. Site Entry and Exit
    ii. BMPs (See associated BMP Fact Sheets)
        1. Protection of Existing Vegetation
        2. Good Housekeeping
        3. Spill Kit
        4. Stockpile Management
        5. Stabilized Staging Area
        6. Straw Wattle
f. Culvert Extension, Ditch Work, and Embankment Work
    i. Potential Pollutants
        1. Construction Parking
        2. Disturbed Soil Flat
        3. Equipment Maintenance and Fueling
        4. Petroleum Based Products
        5. Portable Toilet
        6. Stockpile
        7. Site Entry and Exit
    ii. BMPs (See associated BMP Fact Sheets)
        1. Protection of Existing Vegetation
        2. Good Housekeeping

3. Spill Kit
4. Stockpile Management
5. Stabilized Staging Area
6. Straw Wattle

g. Turn Lane Sub-Grade Preparation
    i. Potential Pollutants
        1. Construction Parking
        2. Disturbed Soil Flat
        3. Equipment Maintenance and Fueling
        4. Petroleum Based Products
        5. Portable Toilet
        6. Stockpile
        7. Site Entry and Exit
    ii. BMPs (See associated BMP Fact Sheets)
        1. Protection of Existing Vegetation
        2. Good Housekeeping
        3. Spill Kit
        4. Stockpile Management
        5. Stabilized Staging Area
        6. Straw Wattle
h. Concrete and Asphalt Application
    i. Potential Pollutants
        1. Activities by Others
        2. Construction Parking
        3. Equipment Maintenance and Fueling
        4. Petroleum Based Products
        5. Portable Toilet
        6. Site Entry and Exit
    ii. BMPs (See associated BMP Fact Sheets)
        1. Concrete Washout Area
        2. Good Housekeeping
        3. Stabilized Staging Area
        4. Straw Wattle
i. Shoulder Barrier and Guardrail Installation
    i. Potential Pollutants
        1. Activities by Others
        2. Construction Parking
        3. Equipment Maintenance and Fueling
        4. Petroleum Based Products
        5. Portable Toilet
        6. Site Entry and Exit
    ii. BMPs (See associated BMP Fact Sheets)
        1. Good Housekeeping

2. Spill Kit
3. Stabilized Staging Area
4. Straw Wattle

j. Pavement Striping and Shouldering
   i. Potential Pollutants
      1. Activities by Others
      2. Construction Parking
      3. Disturbed Soil Flat
      4. Equipment Maintenance and Fueling
      5. Portable Toilet
      6. Stockpile
      7. Site Entry and Exit
   ii. BMPs (See associated BMP Fact Sheets)
      1. Good Housekeeping
      2. Spill Kit
      3. Stockpile Management
      4. Stabilized Staging Area
      5. Straw Wattle

k. Revegetation
   i. Potential Pollutants
      1. Construction Parking
      2. Disturbed Soil Flat
      3. Equipment Maintenance and Fueling
      4. Fertilizers and Nutrients
      5. Petroleum Based Products
      6. Portable Toilet
      7. Site Entry and Exit
   ii. BMPs (See associated BMP Fact Sheets
      1. Rolled Erosion Control Products
      2. Good Housekeeping
      3. Mulching
      4. Spill Kit
      5. Temporary and Permanent Seeding
      6. Straw Wattle

10. Revegetation will be established via seeding, standard mulching, and use of a HydroMulcher. Final stabilization will be achieved when 70% of the pre-construction vegetation is reached, in a uniform coverage.
11. Betsy Wilbanks, Environmental Officer for Native Excavating, will conduct all BMP and SWMP inspections.
12. Spill kits are located in the Foreman and Superintendent's trucks.
13. See attached Traffic Control Plan for the General TCP for the job.
    a. All TCP's were generated by Janessa Kapple, TCS.

14. The site is covered under a US Army Corp of Engineers Nationwide Permit-14 (Linear Transport Projects) and will comply with the general terms and conditions. This designation is SPK-2015-00656.

CC ENTERPRISES - TRAFFIC CONTROL SPECIALISTS, INC.

Contractor: NATIVE EXCAVATING PAGE #1

Project: STEAMBOAT CHRISTIAN CENTER ACCESS & LANE IMPROVEMENTS

Method of Handling Traffic: SHOULDER CLOSURE ON THREE LANE HWY

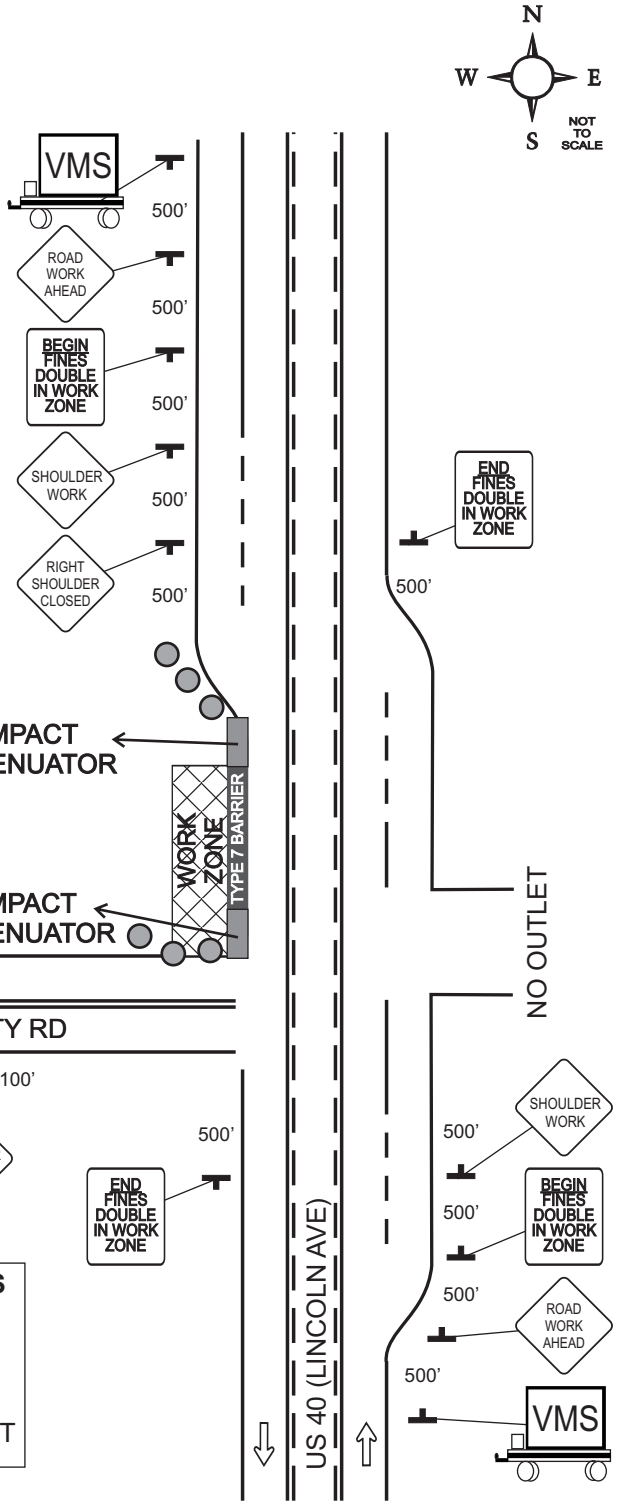
PREPARED BY:
Janessa Kapple 07/12/2017
ATSSA TCS NAME DATE
PHONE: 970-242-0669
CERTIFICATION # 245582
ISSUE DATE: 06/28/2013
EXPIRATION DATE: 06/24/2017
CERTIFICATION RENEWAL IN PROCESS
CURRENT CERTIFICATION VALID FOR 6 MONTHS

CDOT - OTIS - SPEED LIMIT					
Route	Begin Ref	End Ref	Length	Pri Speed Limit	Sec Speed Limit
040A	133.1	135.648	2.521	45	45
040A	135.648	135.753	0.101	55	45
040A	135.753	139.3	3.606	55	55

BASED ON A SPEED OF 45 MPH:
SHOULDER TAPER: 180'
DEVICE SPACING: 45'
SHOULDER BUFFER: 360'
DEVICE SPACING: 90'
SHOULDER END TAPER: 50'
DEVICE SPACING: 25'

NOTES:
1. CONTRACTOR WILL NEED THE SHOULDER CLOSED ON A TWO LANE ROAD UNTIL COMPLETION OF WORK.
2. AT NIGHT, HAZARDS WILL BE BARRICADED WITH DRUMS AND FLASHING LIGHTS.
3. REFER TO MUTCD FIGURE 6H-3 FOR A TYPICAL APPLICATION.
4. TYPE 7 BARRIER WALL AND IMPACT ATTENUATORS SHALL BE PLACED ACCORDING TO MANUFACTURERS SPECIFICATIONS.

SIGNS & DEVICES:
2 - VMS BOARDS
3 - ROAD WORK AHEAD
3 - SHOULDER WORK
1 - RIGHT SHOULDER CLOSED
2 - IMPACT ATTENUATOR
TYPE 7 BARRIER WALL
CHANNELIZING DEVICE
CHANNELIZING DEVICE WITH LIGHT



MHT KEY

- CHANNELIZING DEVICE
- WORK ZONE
- IMPACT ATTENUATOR
- TYPE 7 BARRIER

CHANNELIZING DEVICES

- USED IN TAPERS
- USED IN TANGENT

NAE17-003-01

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Contractor: NATIVE EXCAVATING PAGE #2

Project: STEAMBOAT CHRISTIAN CENTER ACCESS & LANE IMPROVEMENTS

Method of Handling Traffic: LANE SHIFT ON THREE LANE HWY

PREPARED BY:
Janessa Kapple 07/12/2017
ATSSA TCS NAME DATE
PHONE: 970-242-0669
CERTIFICATION # 245582
ISSUE DATE: 06/28/2013
EXPIRATION DATE: 06/24/2017
CERTIFICATION RENEWAL IN PROCESS
CURRENT CERTIFICATION VALID FOR 6 MONTHS

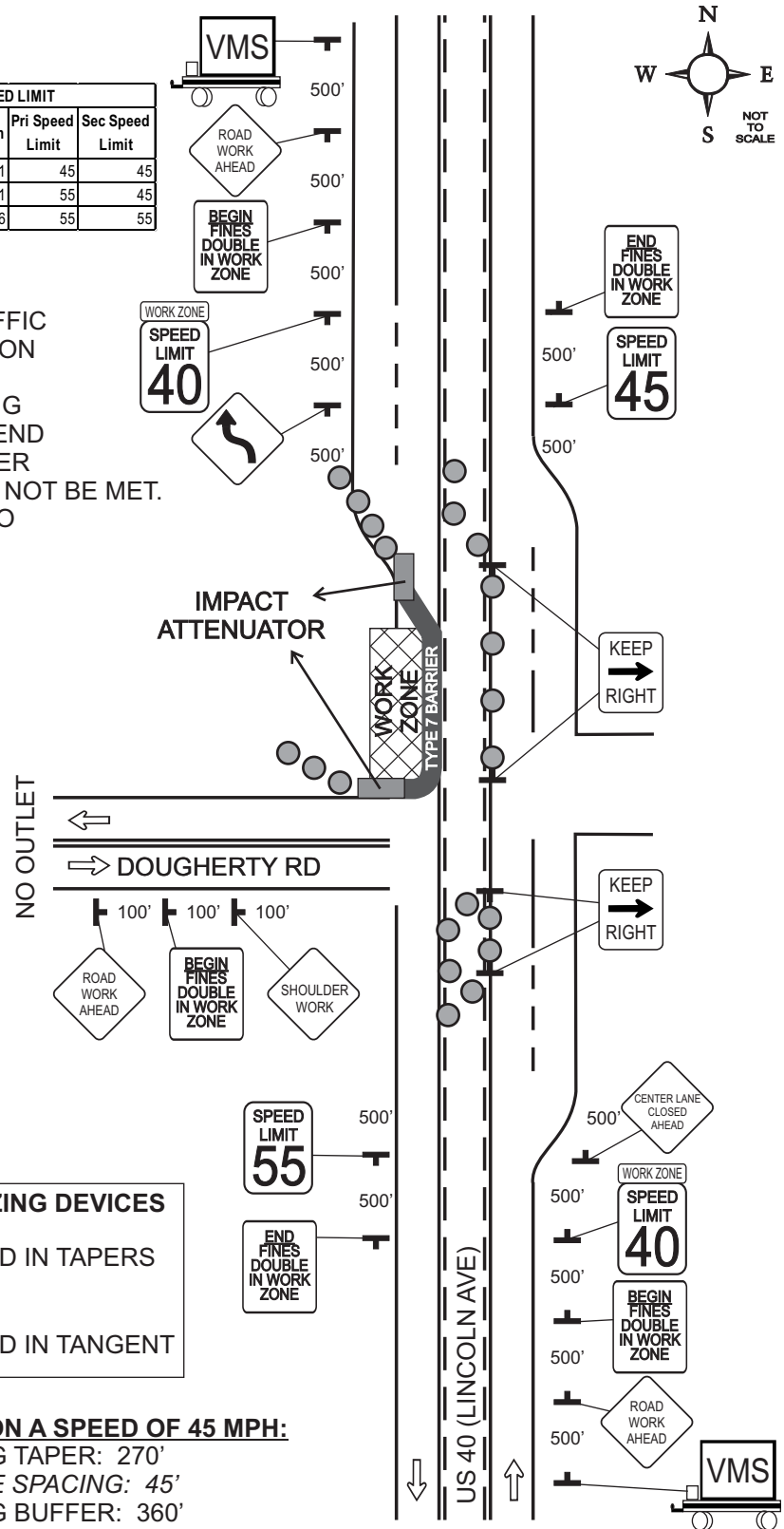
CDOT - OTIS - SPEED LIMIT					
Route	Begin Ref	End Ref	Length	Pri Speed Limit	Sec Speed Limit
040A	133.1	135.648	2.521	45	45
040A	135.648	135.753	0.101	55	45
040A	135.753	139.3	3.606	55	55

NOTES:

1. CONTRACTOR WILL NEED TO SHIFT TRAFFIC ON A THREE LANE HWY UNTIL COMPLETION OF WORK.
2. BARRIER WALL SHALL BE SET ACCORDING TO MANUFACTURERS SPECIFICATIONS. END TREATMENTS SHALL BE USED ON BARRIER ENDS IF AN ADEQUATE FLARE RATE CAN NOT BE MET.
3. REFER TO MUTCD FIGURE 6H-31 & THE CO STANDARDS S-630-1 CASE NO 24 FOR TYPICAL APPLICATIONS.

SIGNS & DEVICES:

3 - BEGIN FINES DOUBLE IN WORK ZONE
2 - END FINES DOUBLE IN WORK ZONE
3 - ROAD WORK AHEAD
2 - WORK ZONE PLAQUE
2 - SPEED LIMIT 40
1 - SPEED LIMIT 45
1 - SPEED LIMIT 55
1 - SHOULDER WORK
1 - REVERSE CURVE
1 - CENTER LANE CLOSED AHEAD
4 - KEEP RIGHT (ARROW)
2 - VARIABLE MESSAGE SIGN PANEL
CHANNELIZING DEVICE
CHANNELIZING DEVICE W/ LIGHTS
SIGN COVERS
TYPE 7 BARRIER WALL
IMPACT ATTENUATOR



MHT KEY

- CHANNELIZING DEVICE
- WORK ZONE
- IMPACT ATTENUATOR
- TYPE 7 BARRIER

CHANNELIZING DEVICES

- USED IN TAPERS
- USED IN TANGENT

BASED ON A SPEED OF 55 MPH:
SHIFTING TAPER: 330'
DEVICE SPACING: 55'
SHIFTING BUFFER: 495'
DEVICE SPACING: 110'
SHIFTING END TAPER: 50'
DEVICE SPACING: 25'

BASED ON A SPEED OF 45 MPH:
SHIFTING TAPER: 270'
DEVICE SPACING: 45'
SHIFTING BUFFER: 360'
DEVICE SPACING: 90'
SHIFTING END TAPER: 50'
DEVICE SPACING: 25'

NAE17-003-02

CC ENTERPRISES - TRAFFIC CONTROL SPECIALISTS, INC.

Contractor: NATIVE EXCAVATING

Project: STEAMBOAT CHRISTIAN CENTER ACCESS & LANE IMPROVEMENTS

Method of Handling Traffic: FLAGGING OPERATION ON THREE LANE HWY

PREPARED BY:
Janessa Kapple 07/17/2017
ATSSA TCS NAME DATE
PHONE: 970-242-0669
CERTIFICATION # 245582
ISSUE DATE: 06/28/2013
EXPIRATION DATE: 06/24/2017
CERTIFICATION RENEWAL IN PROCESS
CURRENT CERTIFICATION VALID FOR 6 MONTHS

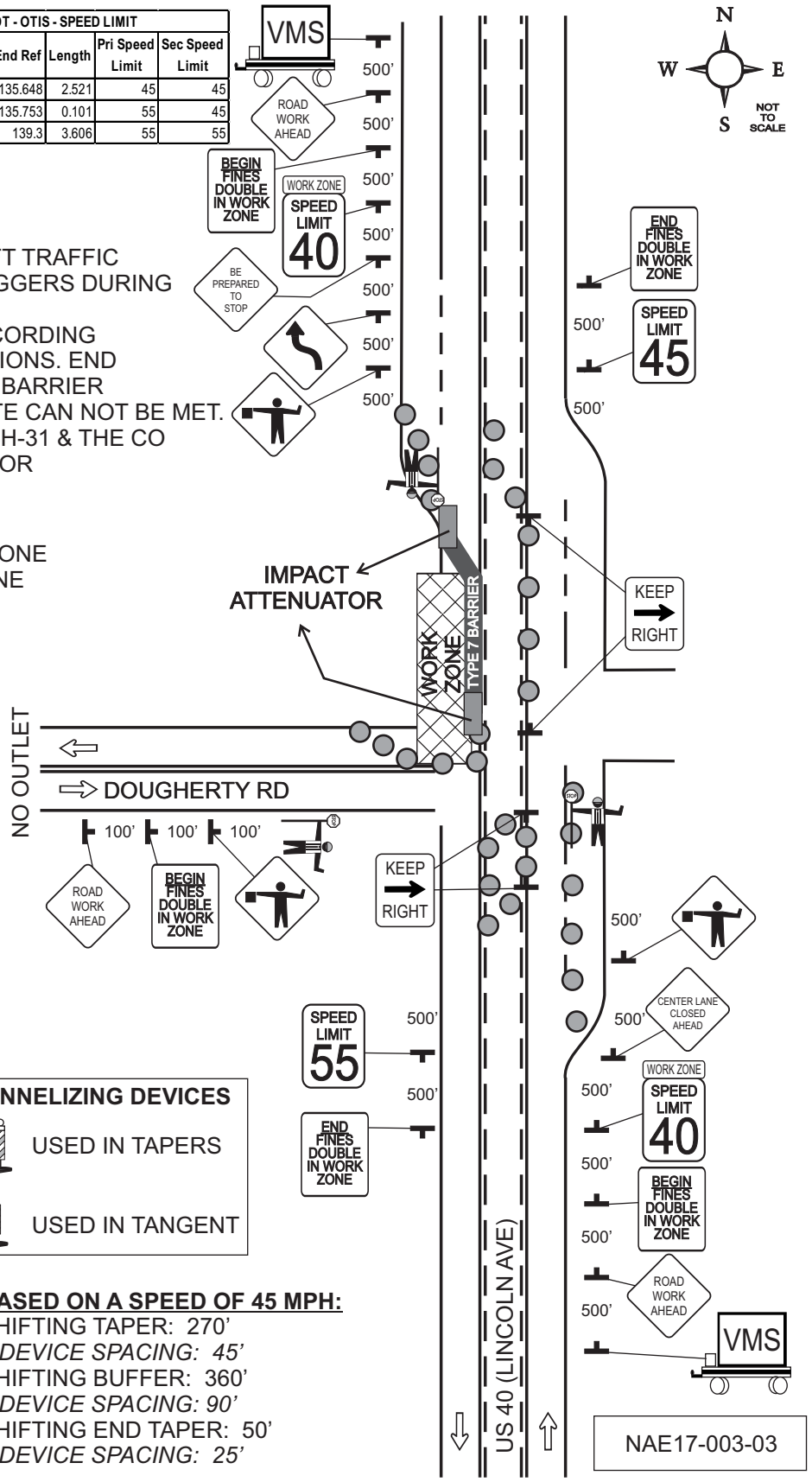
CDOT - OTIS - SPEED LIMIT					
Route	Begin Ref	End Ref	Length	Pri Speed Limit	Sec Speed Limit
040A	133.1	135.648	2.521	45	45
040A	135.648	135.753	0.101	55	45
040A	135.753	139.3	3.606	55	55

NOTES:

1. CONTRACTOR WILL NEED TO SHIFT TRAFFIC ON A THREE LANE HWY WITH FLAGGERS DURING WORKING HOURS ONLY.
2. BARRIER WALL SHALL BE SET ACCORDING TO MANUFACTURERS SPECIFICATIONS. END TREATMENTS SHALL BE USED ON BARRIER ENDS IF AN ADEQUATE FLARE RATE CAN NOT BE MET.
3. REFER TO MUTCD FIGURE 6H-10, 6H-31 & THE CO STANDARDS S-630-1 CASE NO 24 FOR TYPICAL APPLICATIONS.

SIGNS & DEVICES:

3 - BEGIN FINES DOUBLE IN WORK ZONE
2 - END FINES DOUBLE IN WORK ZONE
3 - ROAD WORK AHEAD
2 - WORK ZONE PLAQUE
2 - SPEED LIMIT 40
1 - SPEED LIMIT 45
1 - SPEED LIMIT 55
3 - FLAGGER SYMBOL
1 - REVERSE CURVE
1 - CENTER LANE CLOSED AHEAD
1 - BE PREPARED TO STOP
4 - KEEP RIGHT (ARROW)
2 - VARIABLE MESSAGE SIGN PANEL
CHANNELIZING DEVICE
CHANNELIZING DEVICE W/ LIGHTS
SIGN COVERS
TYPE 7 BARRIER WALL
IMPACT ATTENUATOR



MHT KEY

- CHANNELIZING DEVICE
- WORK ZONE
- IMPACT ATTENUATOR
- TYPE 7 BARRIER

CHANNELIZING DEVICES

- USED IN TAPERS
- USED IN TANGENT

BASED ON A SPEED OF 55 MPH:

SHIFTING TAPER: 330'
DEVICE SPACING: 55'
SHIFTING BUFFER: 495'
DEVICE SPACING: 110'
SHIFTING END TAPER: 50'
DEVICE SPACING: 25'

BASED ON A SPEED OF 45 MPH:

SHIFTING TAPER: 270'
DEVICE SPACING: 45'
SHIFTING BUFFER: 360'
DEVICE SPACING: 90'
SHIFTING END TAPER: 50'
DEVICE SPACING: 25'

NAE17-003-03