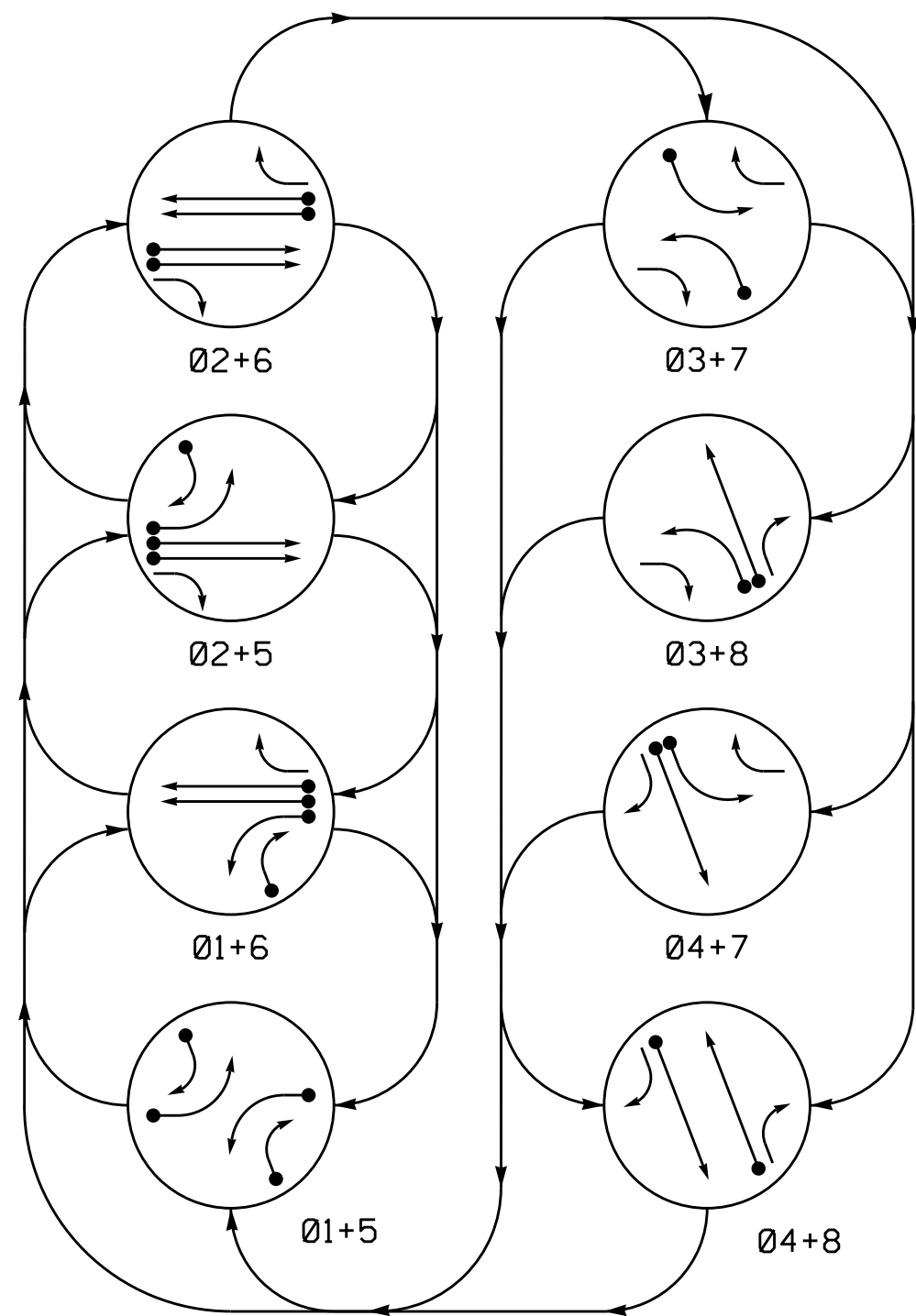


PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

- DETECTED MOVEMENT
- UNDETECTED MOVEMENT (OVERLAP)
- UNSIGNALIZED MOVEMENT
- PEDESTRIAN MOVEMENT

| SIGNAL FACE | PHASE | | | | | | | |
|-------------|-------|------|------|------|------|------|------|------|
| | 01+5 | 01+6 | 02+5 | 02+6 | 03+7 | 03+8 | 04+7 | 04+8 |
| 11 | --- | --- | --- | --- | --- | --- | --- | --- |
| 21 | R | R | G | G | R | R | R | Y |
| 22 | R | R | G | G | R | R | R | Y |
| 31 | --- | --- | --- | --- | --- | --- | --- | --- |
| 41, 43 | R | R | R | R | R | R | G | G |
| 42 | R | R | R | R | R | R | R | R |
| 51 | --- | --- | --- | --- | --- | --- | --- | --- |
| 61 | R | G | R | G | R | R | R | Y |
| 62 | R | G | R | G | R | R | R | Y |
| 71 | --- | --- | --- | --- | --- | --- | --- | --- |
| 81 | R | R | R | R | R | G | R | G |
| 82 | R | R | R | R | R | G | R | G |

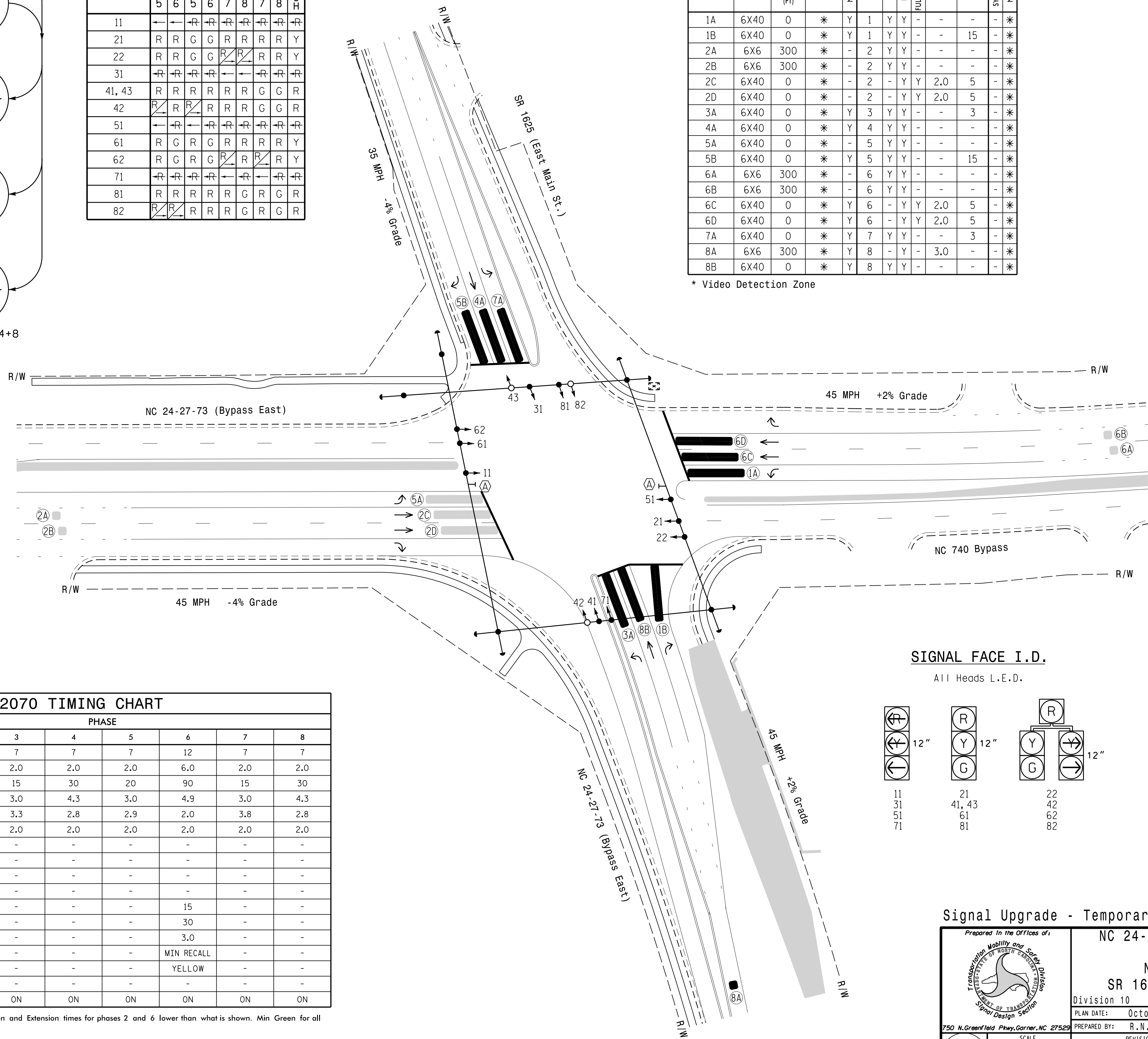
| OASIS 2070 LOOP & DETECTOR INSTALLATION CHART | | | | | | | | | | | | |
|---|-----------|----------------------------|-------|----------|----------------------|---------|-----------|-----------------|--------------|------------|-------------|----------|
| INDUCTIVE LOOPS | | | | | DETECTOR PROGRAMMING | | | | | | | |
| LOOP | SIZE (FT) | DISTANCE FROM STOPBAR (FT) | TURNS | NEW LOOP | PHASE | CALLING | EXTENSION | PULL TIME DELAY | STRETCH TIME | DELAY TIME | SYSTEM LOOP | NEW CARD |
| 1A | 6X40 | 0 | * | Y | 1 | Y | Y | - | - | - | - | * |
| 1B | 6X40 | 0 | * | Y | 1 | Y | Y | - | - | 15 | - | * |
| 2A | 6X6 | 300 | * | - | 2 | Y | Y | - | - | - | - | * |
| 2B | 6X6 | 300 | * | - | 2 | Y | Y | - | - | - | - | * |
| 2C | 6X40 | 0 | * | - | 2 | - | Y | Y | 2.0 | 5 | - | * |
| 2D | 6X40 | 0 | * | - | 2 | - | Y | Y | 2.0 | 5 | - | * |
| 3A | 6X40 | 0 | * | Y | 3 | Y | Y | - | - | 3 | - | * |
| 4A | 6X40 | 0 | * | Y | 4 | Y | Y | - | - | - | - | * |
| 5A | 6X40 | 0 | * | - | 5 | Y | Y | - | - | - | - | * |
| 5B | 6X40 | 0 | * | Y | 5 | Y | Y | - | - | 15 | - | * |
| 6A | 6X6 | 300 | * | - | 6 | Y | Y | - | - | - | - | * |
| 6B | 6X6 | 300 | * | - | 6 | Y | Y | - | - | - | - | * |
| 6C | 6X40 | 0 | * | Y | 6 | - | Y | Y | 2.0 | 5 | - | * |
| 6D | 6X40 | 0 | * | Y | 6 | - | Y | Y | 2.0 | 5 | - | * |
| 7A | 6X40 | 0 | * | Y | 7 | Y | Y | - | - | 3 | - | * |
| 8A | 6X6 | 300 | * | Y | 8 | - | Y | - | 3.0 | - | - | * |
| 8B | 6X40 | 0 | * | Y | 8 | Y | Y | - | - | - | - | * |

* Video Detection Zone

8 Phase Fully Actuated NC 24-27-73 (Bypass East) CLS

NOTES

- Refer to "Roadway Standard Drawings NCDOT" dated January 2018 and "Standard Specifications for Roads and Structures" dated January 2018.
- Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- Phase 1 and/or phase 5 may be lagged.
- Phase 3 and/or phase 7 may be lagged.
- Reposition all existing signal heads as shown.
- Renumber existing loop 8C to 1B.
- Set all detector units to presence mode.
- See Pavement Marking Plans for proposed stop bar locations.
- Remove existing "YIELD" Sign (R1-2).
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
- Closed loop system data: Controller Asset #: 0591.

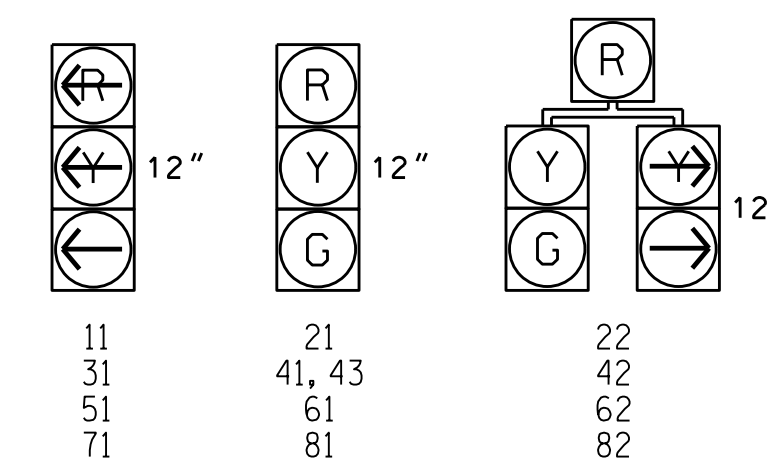


| FEATURE | OASIS 2070 TIMING CHART | | | | | | | |
|-------------------------|-------------------------|------------|-----|-----|-----|------------|-----|-----|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Min Green 1 * | 7 | 12 | 7 | 7 | 7 | 12 | 7 | 7 |
| Extension 1 * | 2.0 | 6.0 | 2.0 | 2.0 | 2.0 | 6.0 | 2.0 | 2.0 |
| Max Green 1 * | 20 | 90 | 15 | 30 | 20 | 90 | 15 | 30 |
| Yellow Clearance | 3.0 | 4.9 | 3.0 | 4.3 | 3.0 | 4.9 | 3.0 | 4.3 |
| Red Clearance | 3.2 | 2.0 | 3.3 | 2.8 | 2.9 | 2.0 | 3.8 | 2.8 |
| Red Revert | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| Walk 1 * | - | - | - | - | - | - | - | - |
| Don't Walk 1 | - | - | - | - | - | - | - | - |
| Seconds Per Actuation * | - | - | - | - | - | - | - | - |
| Max Variable Initial * | - | - | - | - | - | - | - | - |
| Time Before Reduction * | - | 15 | - | - | - | 15 | - | - |
| Time To Reduce * | - | 30 | - | - | - | 30 | - | - |
| Minimum Gap | - | 3.0 | - | - | - | 3.0 | - | - |
| Recall Mode | - | MIN RECALL | - | - | - | MIN RECALL | - | - |
| Vehicle Call Memory | - | YELLOW | - | - | - | YELLOW | - | - |
| Dual Entry | - | - | - | - | - | - | - | - |
| Simultaneous Gap | ON | ON | ON | ON | ON | ON | ON | ON |

* These values may be field adjusted. Do not adjust Min Green and Extension times for phases 2 and 6 lower than what is shown. Min Green for all other phases should not be lower than 4 seconds.

SIGNAL FACE I.D.

All Heads L.E.D.



LEGEND

- | PROPOSED | EXISTING |
|--|----------|
| ○ Traffic Signal Head | ● N/A |
| ○ Modified Signal Head | ○ N/A |
| ○ Pedestrian Signal Head With Push Button & Sign | ○ N/A |
| ○ Signal Pole with Guy | ○ N/A |
| ○ Signal Pole with Sidewalk Guy | ○ N/A |
| □ Inductive Loop Detector Controller & Cabinet | □ N/A |
| □ Junction Box | □ N/A |
| --- 2-in Underground Conduit | --- N/A |
| --- Right of Way | --- N/A |
| → Directional Arrow | → N/A |
| █ Construction Arrow | █ N/A |
| █ Video Detection Zone | █ N/A |
| ⊙ "U-TURN YIELD TO RIGHT TURN" Sign (R10-16) | ⊙ N/A |

Signal Upgrade - Temporary Design 3 - Phase 3

Prepared in the Offices of:

NC 24-27-73 (Bypass East)
 at
NC 740 Bypass/ SR 1625 (East Main St.)
 Division 10 Stanly County Albemarle
 PLAN DATE: October 2018 REVIEWED BY: T.J. Williams
 PREPARED BY: R.N. Zinser REVIEWED BY:
 SCALE: 1" = 40'
 REVISIONS: _____ INIT. DATE _____
 DocuSigned by: R. N. Zinser 11/2/2018
 F:\188973472\2406
 SIG. INVENTORY NO. 10-0591 T3

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED