

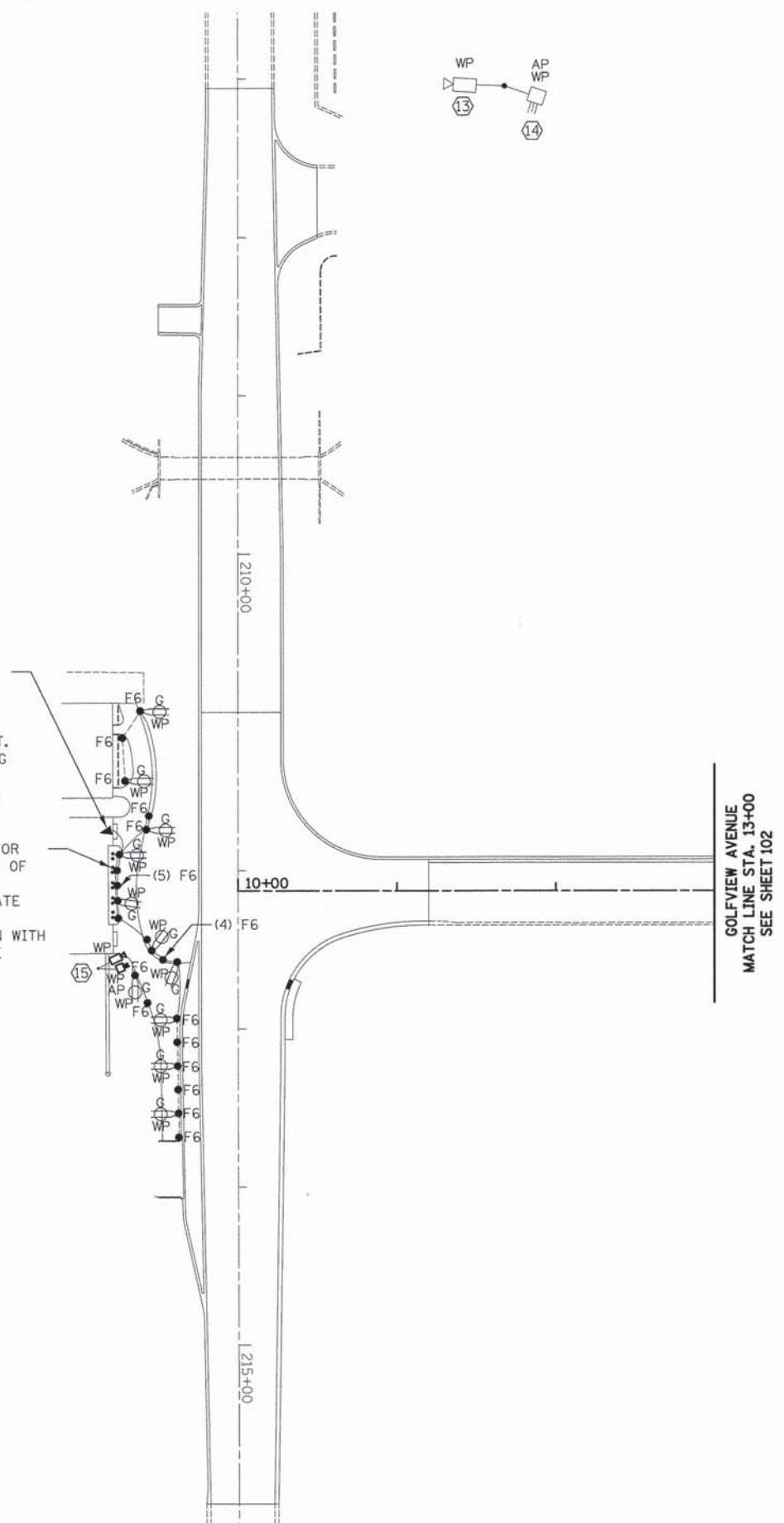
KEYED NOTES

- ⑬ NEW IP SECURITY CAMERA MOUNTED TO LIGHT POLE AND/OR CANOPY
VERIFY MTG HEIGHT WITH CZS.
- ⑭ WIRELESS ACCESS POINT (AP) MOUNTED TO LIGHT POLE AND/OR CANOPY
VERIFY MTG HEIGHT WITH CZS.
- ⑮ ADD NEW IP SECURITY CAMERA & NEW WIRELESS ACCESS POINT (AP)
TO NORTH GATE ENTRANCE. COORDINATE EXACT LOCATION AND
MOUNTING HEIGHT WITH CZS.



1" C W/ 2#6, 1#8G FOR
RECEPTACLE BRANCH
CIRCUIT & 2#6, 1#8G
FOR ARCHWAY STRUCTURE
FLOOD LIGHT BRANCH CIRCUIT.
COORDINATE CONDUIT ROUTING
& FINAL TERMINATION WITH
CZS FACILITIES DEPARTMENT.

(10) F7 FOR
UP-LIGHT OF
BANNERS
COORDINATE
EXACT
LOCATION WITH
CZS SITE



31ST STREET

| | | | |
|---|------------------------------|----------------------|-----------|
| FILE NAME = ...sheet\Lighting\2563.E.1.0.dgn | USER NAME = dte | DESIGNED - WK | REVISED - |
| | | DRAWN - FI | REVISED - |
| | PLOT SCALE = 50.0000' / 1" = | CHECKED - VT | REVISED - |
| | PLOT DATE = 5/6/2013 | DATE - 05/13/2013 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

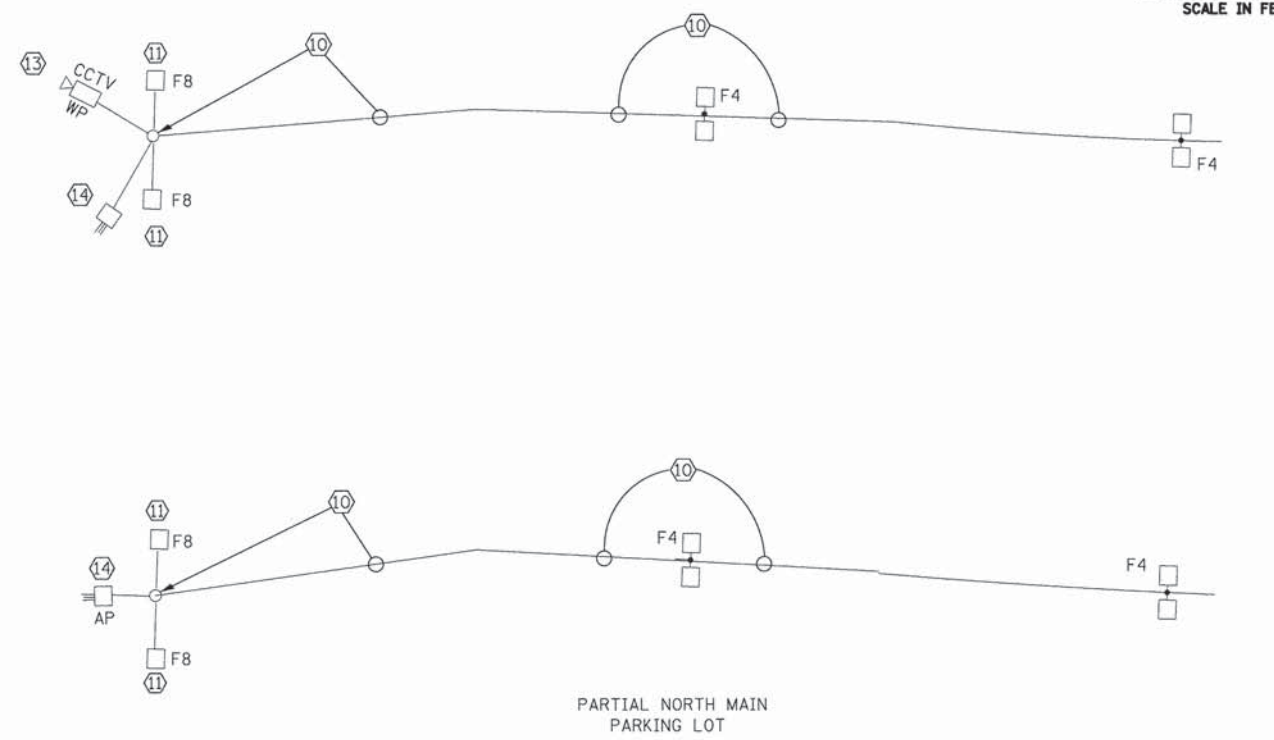
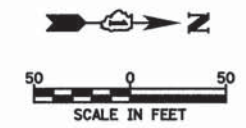
ELECTRICAL SITE PLAN E1.0

SCALE: 1" = 50' SHEET NO. 1 OF 2 SHEETS STA. TO STA.

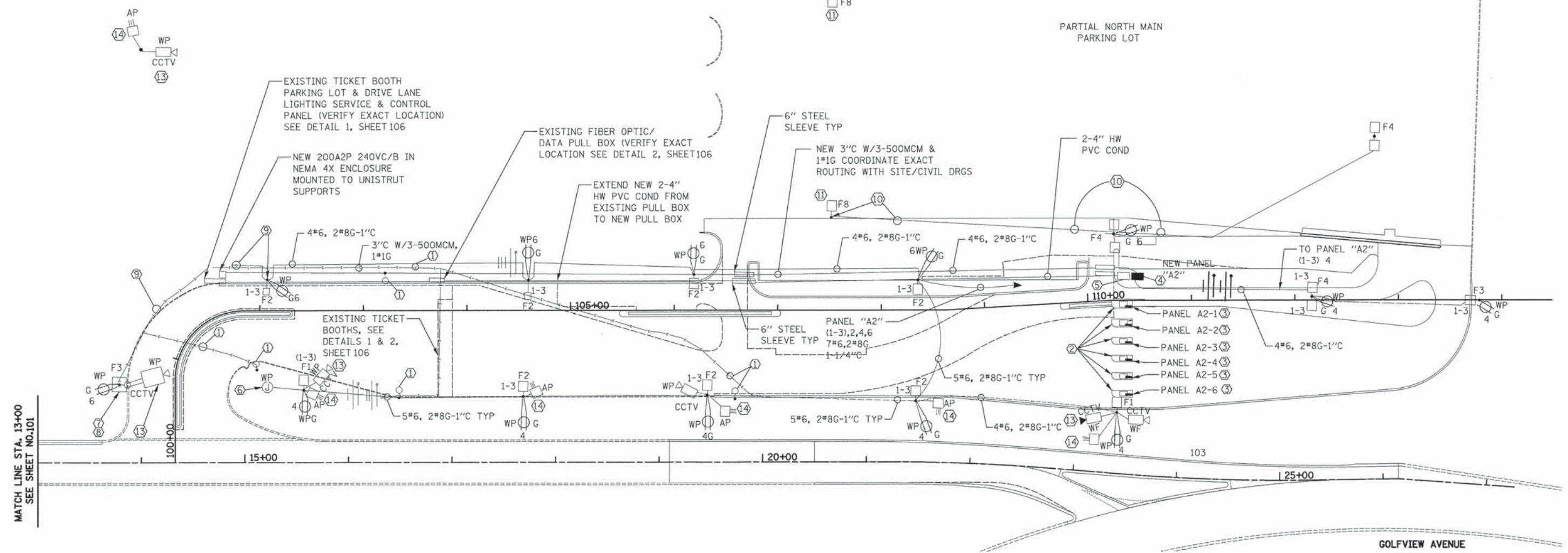
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|----------------|--------|--------------|-----------|
| 3784 | 12-F3000-23-PK | COOK | 131 | 101 |
| CONTRACT NO. | | | | 63764 |
| FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT | | | | |

KEYED NOTES

- ① DISCONNECT & REMOVE EXISTING POLE, LIGHT FIXTURE, CAMERAS, ETC & REMOVE WIRE, CABLE TO SOURCE, THIS WORK SHALL BE PAID FOR AS "REMOVAL OF LIGHTING UNIT, NO SALVAGE" CONCRETE BASE REMOVAL SHALL BE PAID FOR AS "REMOVAL OF POLE FOUNDATION".
- ② PRE FAB KIOSK FURNISHED & MOUNTED BY OTHERS. SEE DRG. E1.2
- ③ 100A120/240V1Ø3W 18 CIRCUIT PANEL FURNISHED WITH KIOSK. EC SHALL BE RESPONSIBLE TO COORDINATE KIOSK SERVICE STUBUP LOCATION & MAKE FINAL CONNECTION TO PANEL.
- ④ NEW BOOTH SERVICE PANEL "A2" SEE NEW KIOSK ELECTRIC SERVICE DIAGRAM DRG. E2.0
- ⑤ NEW KIOSK FIBER OPTIC/DATA PULL BOX/DISTRIBUTION DIAGRAM DRG E2.0.
- ⑥ FUTURE SIGN. VERIFY EXACT CONDUIT STUB WITH CZS PRIOR TO ROUGH IN. TAPE AND TAG WIRES IN JUNCTION BOX AND PANEL "A2"
- ⑦ SAME AS FOR ITEM ① EXCEPT CONCRETE BASE & POLE TO REMAIN.
- ⑧ F&I NEW "F3" TYPE FIXTURE ON TO EXISTING POLE. PROVIDE MOUNTING BRACKET AS NECESSARY.
- ⑨ INTERCEPT EXISTING CONDUIT & EXTEND TO NEW "F2" FIXTURE. FURNISH & INSTALL NEW 4#6, 2#8GRD INTO EXISTING CONDUIT FROM NEW F2 FIXTURE TO NEW F3 FIXTURE ALSO SEE NOTE ⑧
- ⑩ INTERCEPT EXISTING LIGHT POLE FEEDER & EXTEND WIRE OF SAME AMPACITY IN NEW CONDUIT TO NEW PARKING LOT LIGHT FIXTURE.
- ⑪ DISCONNECT & REMOVE EXISTING LIGHT FIXTURE FROM EXISTING POLE & F&I NEW F8 LIGHT FIXTURE CONNECT TO EXISTING BRANCH CIRCUIT. PROVIDE MOUNTING BRACKET AS NECESSARY.
- ⑫ NOT USED
- ⑬ NEW IP SECURITY CAMERA MOUNTED TO LIGHT POLE. VERIFY MTG HEIGHT WITH CZS.
- ⑭ WIRELESS ACCESS POINT (AP) MOUNTED TO LIGHT POLE AND/OR CANOPY VERIFY MTG HEIGHT WITH CZS.



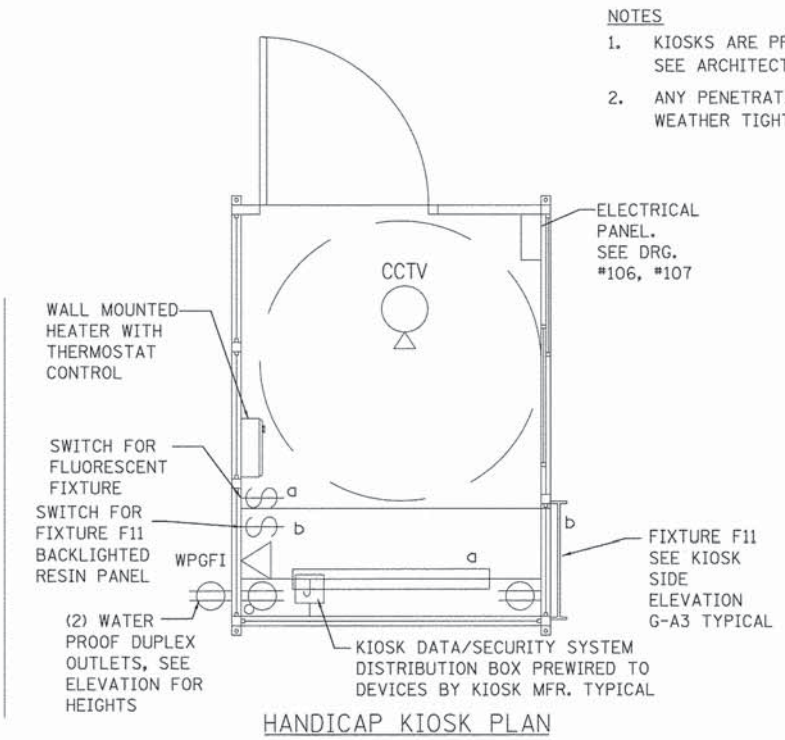
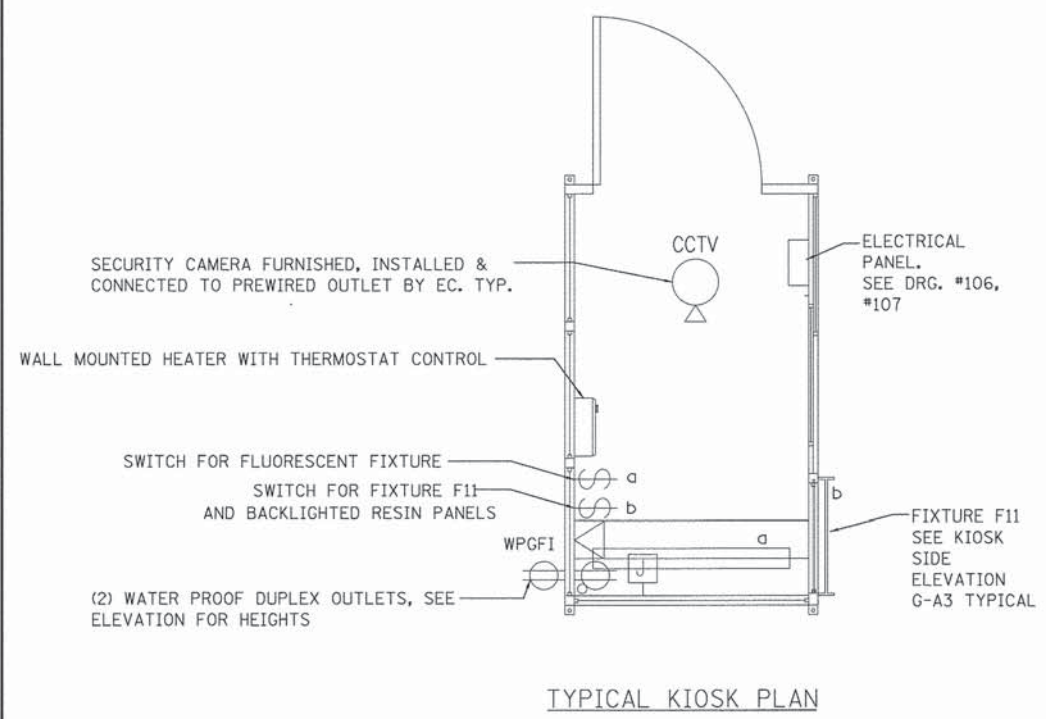
PARTIAL NORTH MAIN PARKING LOT



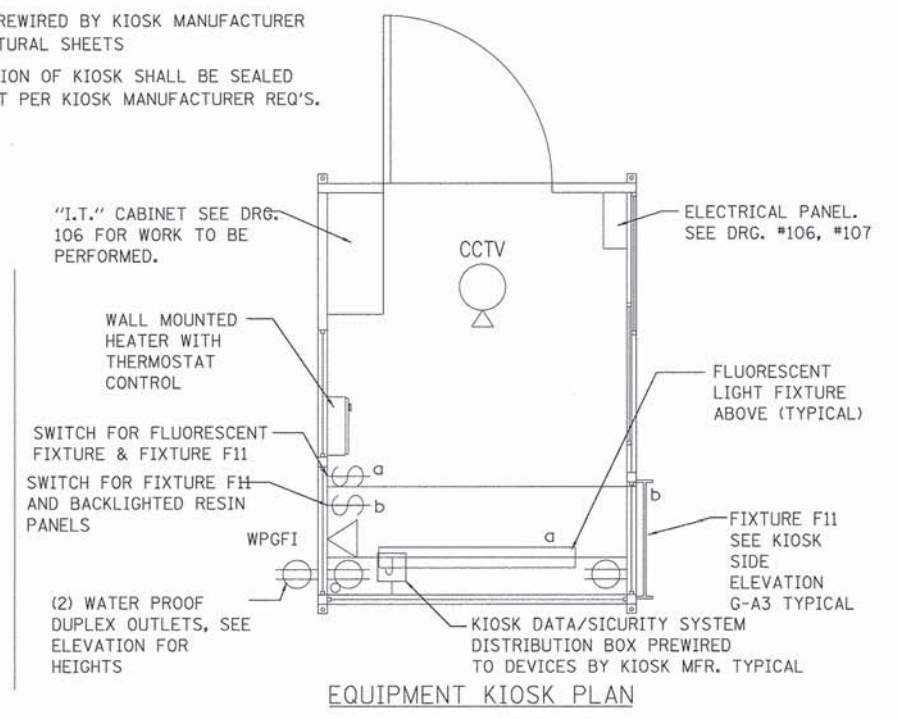
MATCH LINE STA. 13+00
SEE SHEET NO.101

GOLFVIEW AVENUE

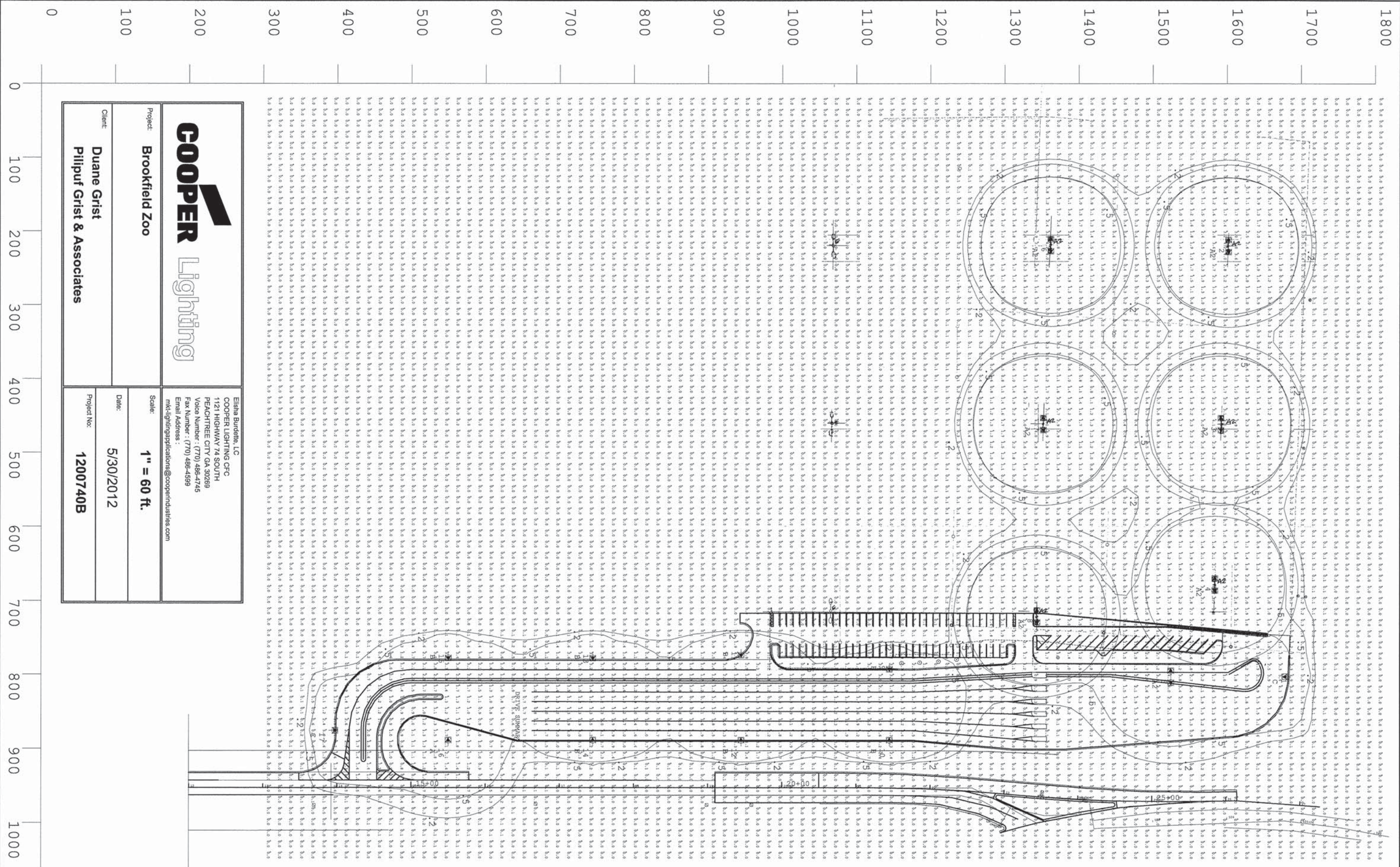
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| FILE NAME = ...sheet\Lighting\2563.E.1.1.dgn | USER NAME = dte | DESIGNED - WK | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | ELECTRICAL SITE PLAN E1.0 | F.A. RTE. 3784 | SECTION 12-F3000-23-PK | COUNTY COOK | TOTAL SHEETS 131 | SHEET NO. 102 | | |
| PLOT SCALE = 50.0000' / 1" = | CHECKED - VT | REVISOR - | REVISOR - | | | SCALE: 1" = 50' SHEET NO. 2 OF 2 SHEETS STA. TO STA. | | CONTRACT NO. 63764 | | | | |
| PLOT DATE = 5/6/2013 | DATE - 05/13/2013 | REVISOR - | REVISOR - | | | FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT | | | | | | |
| | | | | | | | | | | | | |




- NOTES**
1. KIOSKS ARE PREWIRED BY KIOSK MANUFACTURER SEE ARCHITECTURAL SHEETS
 2. ANY PENETRATION OF KIOSK SHALL BE SEALED WEATHER TIGHT PER KIOSK MANUFACTURER REQ'S.







| | | | | | | | | | | | | |
|---|---------------------------|-------------------|-----------|---|---|----------------|------------------|--------------------|---------|--------|--------------|-----------|
| FILE NAME = ...sheet\Lighting\2563.E.1.2.dgn | USER NAME = dte | DESIGNED - WK | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | TYPICAL KIOSK PLAN | | | F.A.U. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | PLOT SCALE = 4.0000' / 1" | DRAWN - FI | REVISED - | | 3784 | 12-F3000-23-PK | COOK | 131 | 103 | | | |
| | PLOT DATE = 5/8/2013 | CHECKED - VT | REVISED - | | SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA. | | | CONTRACT NO. 63764 | | | | |
| | | DATE - 05/13/2013 | REVISED - | | FED. ROAD DIST. NO. 1 ILLINOIS | | FED. AID PROJECT | | | | | |




| | | | |
|---|--|---|-------------|
|  | | Elisha Burdette, LC COOPER LIGHTING CFC 1121 HIGHWAY 74 SOUTH PEACHTREE CITY, GA 30286 Voice Number : (770) 486-4745 Fax Number : (770) 486-4599 Email Address : mkt-lightingapplications@cooperindustries.com | |
| Project: | Brookfield Zoo | Scale: | 1" = 60 ft. |
| Client: | Duane Grist Pilpuf Grist & Associates | Date: | 5/30/2012 |
| | | Project No: | 1200740B |

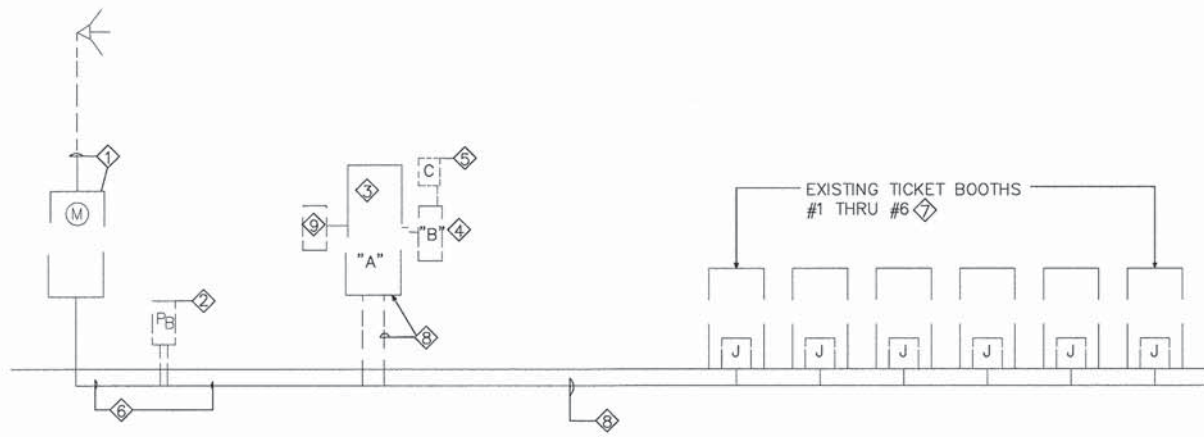
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|--|------------------------------|------------|-----------|---|------------------------------|-------------------------|-----------------------|---------------------------|----------------|---------------------------|---------------------|
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| | PLOT SCALE = 60.0000 ' / in. | DRAWN - | REVISED - | | SCALE: 1" = 60' | SHEET NO. 1 OF 2 SHEETS | STA. | CONTRACT NO. 63764 | | ILLINOIS FED. AID PROJECT | |
| | PLOT DATE = 5/6/2013 | CHECKED - | REVISED - | | | | | | | | |
| | | DATE - | REVISED - | | | | | | | | |

| Luminaire Schedule | | | | | | | | |
|---|-----|-------|-------------|-------|--------------------|------------|-------------|-------------|
| Symbol | Qty | Label | Arrangement | LLF | Description | Lum. Watts | Total Watts | Lum. Lumens |
|  | 1 | A | SINGLE | 0.912 | VTS-B12-LED-E1-5WQ | 285 | 285 | 28407 |
|  | 7 | A2 | BACK-BACK | 0.912 | VTS-B12-LED-E1-5WQ | 285 | 3990 | 28407 |
|  | 7 | B | SINGLE | 0.912 | VTS-B12-LED-E1-SL3 | 285 | 1995 | 26314 |
|  | 2 | C | SINGLE | 0.912 | VTS-B12-LED-E1-SL4 | 285 | 570 | 26757 |

| Calculation Summary | | | | | | | |
|---------------------|-------------|-------|------|-----|-----|---------|---------|
| Label | CalcType | Units | Avg | Max | Min | Avg/Min | Max/Min |
| CalcPts@Grade | Illuminance | Fc | 0.38 | 5.4 | 0.0 | N.A. | N.A. |
| DRIVE SUMMARY | Illuminance | Fc | 1.37 | 5.4 | 0.0 | N.A. | N.A. |

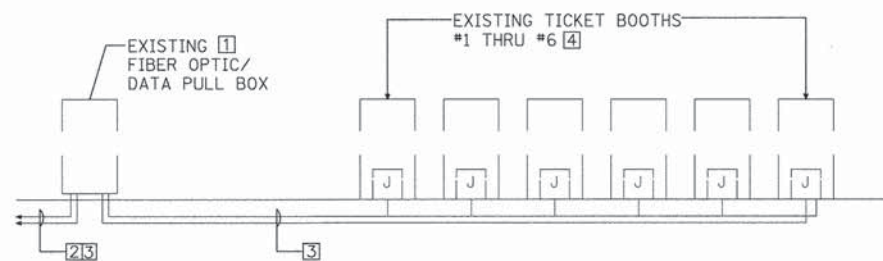
| Luminaire Location Summary | | | | | | |
|----------------------------|-------|---------|----------|----|--------|------|
| LumNo | Label | X | Y | Z | Orient | Tilt |
| 1 | C | 802.828 | 1686.663 | 30 | 270 | 0 |
| 2 | A2 | 220.062 | 1602.007 | 30 | 0 | 0 |
| 3 | A2 | 460.995 | 1592.06 | 30 | 0 | 0 |
| 4 | A2 | 677.916 | 1584.123 | 30 | 0 | 0 |
| 5 | A2 | 802.828 | 1524.663 | 30 | 0 | 0 |
| 6 | A2 | 218.956 | 1362.179 | 30 | 0 | 0 |
| 7 | A2 | 460.995 | 1352.232 | 30 | 0 | 0 |
| 8 | A2 | 721.119 | 1343.993 | 30 | 0 | 0 |
| 9 | B | 784.828 | 1144.663 | 30 | 0 | 0 |
| 10 | B | 896.828 | 1144.663 | 30 | 180 | 0 |
| 11 | B | 765.828 | 944.663 | 30 | 0 | 0 |
| 12 | B | 896.828 | 944.663 | 30 | 180 | 0 |
| 13 | B | 769.828 | 744.663 | 30 | 0 | 0 |
| 14 | B | 896.828 | 744.663 | 30 | 180 | 0 |
| 15 | B | 769.828 | 549.663 | 30 | 0 | 0 |
| 16 | A | 896.828 | 549.663 | 30 | 180 | 0 |
| 17 | C | 875.828 | 388.663 | 30 | 90 | 0 |

| | | |
|---|--|--------|
|  | Elisha Burdette, LC COOPER LIGHTING CFC 1121 HIGHWAY 74 SOUTH PEACHTREE CITY GA 30269 Voice Number : (770) 486-4745 Fax Number : (770) 486-4599 Email Address : mkt-lightingapplications@cooperindustries.com | |
| | Project: Brookfield Zoo | Scale: |
| Client: Duane Grist Pilipuf Grist & Associates | Date: 5/30/2012 | |
| | Project No: 1200740B | |



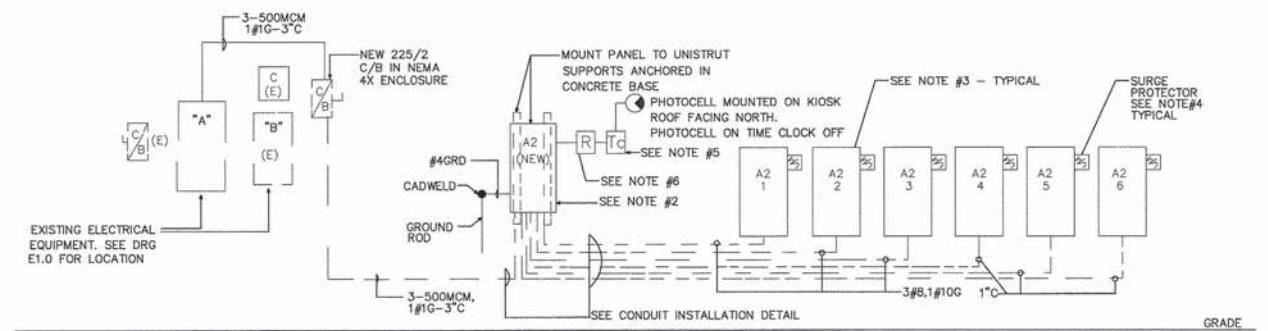
① ELECTRICAL DEMOLITION DIAGRAM

- ① EXISTING 400A 120/240V1Ø3W METER & SERVICE DROP TO REMAIN.
- ② EXISTING PULL/SPLICE BOX TO REMAIN
- ③ EXISTING 225A 120/240V1Ø3W PANEL TO REMAIN. SEE PANEL "A" SCHEDULE
- ④ EXISTING 200A 120/240V1Ø3W PANEL TO REMAIN. SEE PANEL "B" SCHEDULE.
- ⑤ EXISTING 200A 240V1Ø PANEL "B" CONTACTOR TO REMAIN.
- ⑥ EXISTING CONDUIT & WIRE TO REMAIN
- ⑦ DISCONNECT EXISTING TICKET BOOTH FROM SOURCE TO FACILITATE REMOVAL OF TICKET BOOTH BY OTHERS
- ⑧ DISCONNECT & REMOVE WIRE FROM CONDUIT COMPLETELY, & REMOVE CONDUIT FROM PANEL. VERIFY EXACT NUMBER OF CONDUITS SERVING EXISTING TICKET BOOTHS, PRIOR TO PERFORMING ANY WORK.
- ⑨ EXISTING SUBFEED BREAKER TO REMAIN.



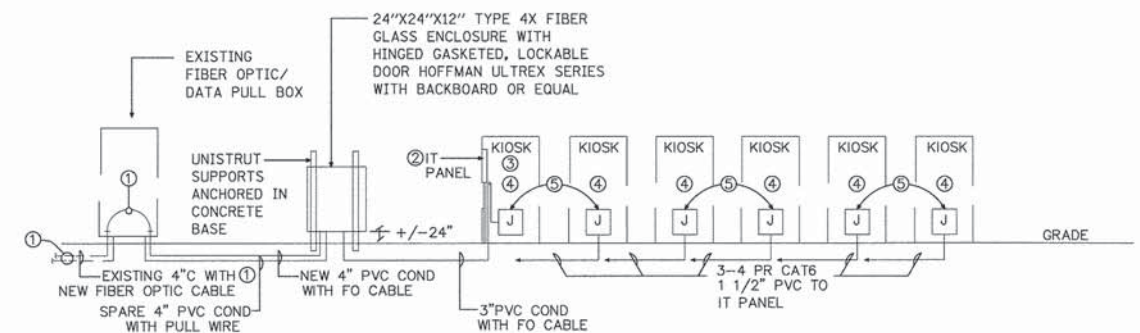
② EXISTING TICKET BOOTH SERVICE DIAGRAM

- ① EXISTING PULL BOX TO REMAIN
- ② EXISTING 2-4" SERVICE COND TO REMAIN
- ③ COORDINATE REMOVAL OF EXISTING FIBER/OPTIC/DATA FROM EXISTING CONDUIT WITH CHICAGO ZOOLOGICAL SOCIETY INFORMATION SERVICES, AT BROOKFIELD ZOO.
- ④ DISCONNECT ALL LOW VOLTAGE CABLES, I.e., DATA, PHONE, CCTV, ETC. FROM WITHIN EXISTING TICKET BOOTHS TO FACILITATE TICKET BOOTH REMOVAL BY OTHERS.



③ NEW BOOTH ELECTRIC SERVICE DIAGRAM

1. FURNISH & INSTALL GROUND BUSHINGS & BOND METAL ENCLOSURES
2. PANEL "A2" SHALL BE NEMA 4X ENCLOSURE WITH HINGED & GASKETED DOOR & 3 POINT LATCH WITH LOCK
3. FURNISHED & PREWIRED WITH KIOSK
4. EC SHALL F & I SURGE PROTECTOR, SURGE PROTECTOR SHALL BE EQUAL TO : MCG SURGE PROTECTION, APC SCHNEIDER ELECTRIC, OR ZERO SURGE INC : MODEL PT80-120T : 120/240V 1Ø 3W+G
5. ELECTRONIC TIME CLOCK WITH ASTRONOMICAL 7 DAY CONTROL
6. 6 POLE 20A RELAY WITH 2 WIRE CONTROL RELAY IN NEMA4X ENCLOSURE ASC0917 SERIES



④ NEW BOOTH FIBER OPTIC/LOW VOLTAGE DISTRIBUTION DIAGRAM

1. FURNISH AND INSTALL NEW 12 STRAND, SINGLE MODE OUTDOOR RATED FIBER OPTIC CABLE INTO EXISTING CONDUIT AND EXTEND THRU EXISTING PULL BOX TO NEW "IT" PANEL VIA NEW PULL BOX. TERMINATE FIBER OPTIC CABLE IN NEW "IT" PANEL. SYSTEMAX/COMMSCOPE, GENERAL CABLE, OR SUNESYS
2. NEW NETWORK HARDWARE CABINET 36"H x 26"W x 12"D CABINET SHALL BE EQUAL TO: CHATSWORTH PRODUCTS, INC CABINET # 13050-723 PATCH PANEL MGMT BAR # 12176-701 FIBER SLACK MGR PANEL # 12955-719 DUPLEX RECEPTABLE # 12934-001
3. COPPER DATA CABLE SHALL BE 4PAIR CAT6, OUTDOOR RATED. SYSTEMAX/COMMSCOPE, GENERAL CABLE, OR SOUTHWIRE
4. EACH KIOSK SHALL BE HARDWIRED WITH CAT 6 CABLE FOR 3 DATA TELEPHONE, POS REGISTER, 1CCTV CAMERA. SEE ARCH DRG FOR EXACT LOCATION. EACH CAT6 DATA CABLE SHALL BE SURGE PROTECTED WITH SOLID STATE BUILDING ENTRANCE PROTECTORS. SURGE PROTECTORS SHALL BE EQUAL TO ITW LINX SURGE GATE 1Gb CAT6-75
5. COORDINATE EXACT STUB UP LOCATION WITH KIOSK INSTALLER & GEN CONTRACTOR PRIOR TO ROUGH-IN.

| | | | | | | | | | | | | |
|---|-----------------------------|-------------------|-----------|---|---|-------------------------|--------------|--------------------|---------------------------|----------------|---------------------|------------------|
| FILE NAME = ...sheet\Lighting\2563.E.2.0.dgn | USER NAME = dte | DESIGNED - WK | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | ELECTRICAL DIAGRAMS & SCHEDULES E2.0 | | | F.A. RTE. 3784 | SECTION 12-F3000-23-PK | COUNTY COOK | TOTAL SHEETS 131 | SHEET NO. 106 |
| | PLOT SCALE = 1:8000 ' / in. | DRAWN - FI | REVISED - | | SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. TO STA. | CONTRACT NO. 63764 | | | | |
| | PLOT DATE = 5/30/2013 | CHECKED - VT | REVISED - | | FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT | | | | | | | |
| | | DATE - 05/13/2013 | REVISED - | | | | | | | | | |

PANEL: A-NORTH WEST PARKING LOT (EXISTING)

| SPACES 30 | MOUNTING SURFACE | LOCATION | MAIN LUG ONLY | | MAIN BREAKER | VOLTAGE 120/240V 1Ø 3W | | MAIN BUS RAT. | | FEED | DESCRIPTION | CKT. NO. |
|--------------|---------------------|-----------------|---------------|-----|-----------------|---------------------------|-----|------------------|-----|------|-----------------|-------------|
| | | | A Ø | B Ø | | A Ø | B Ø | A Ø | B Ø | | | |
| 1 | | PANEL Ø | | | 20 | 1 | | | | | SPARE | 2 |
| 3 | | TICKET BOOTH #3 | | | 30 | 2 | | | | | TICKET BOOTH #6 | 4 |
| 5 | | - | | | | | | | | | - | 6 |
| 7 | | TICKET BOOTH #2 | | | 30 | 2 | | | | | TICKET BOOTH #5 | 8 |
| 9 | | - | | | | | | | | | - | 10 |
| 11 | | TICKET BOOTH #1 | | | 30 | 2 | | | | | TICKET BOOTH #4 | 12 |
| 13 | | - | | | | | | | | | - | 14 |
| 15 | | ENTRANCE LTS | | | 20 | 2 | | | | | ENTRANCE LTS | 16 |
| 17 | | ENTRANCE LTS | | | | | | | | | - | 18 |
| 19 | | SPACE | | | 20 | 1 | | | | | SPACE | 20 |
| 21 | | - | | | 20 | 1 | | | | | SPACE | 22 |
| 23 | | PARKING LOT LTS | | | 50 | 2 | | | | | SPACE | 24 |
| 25 | | - | | | 20 | 1 | | | | | SPACE | 26 |
| 27 | | - | | | 20 | 2 | | | | | VENDING SHED | 28 |
| 29 | | - | | | | | | | | | VENDING SHED | 30 |
| TOTAL | | | | | | | | | | | TOTAL | |

TOTAL CONN. = , W / = A

- ① EXISTING LOAD TO REMAIN
- ② DISCONNECT & REMOVE EXISTING CONDUCTORS COMPLETELY, REMOVE C/B & PROVIDE BLANK PLATE

PANEL: B (EXISTING)

| SPACES 30 | MOUNTING SURFACE | LOCATION | MAIN LUG ONLY | | MAIN BREAKER | VOLTAGE 120/240V 1Ø 3W | | MAIN BUS RAT. | | FEED | DESCRIPTION | CKT. NO. |
|--------------|---------------------|---------------|---------------|-----|-----------------|---------------------------|-----|------------------|--|------|---------------|-------------|
| | | | A Ø | B Ø | | A Ø | B Ø | | | | | |
| 1 | | EXISTING LOAD | | | 30 | 2 | | | | | EXISTING LOAD | 2 |
| 3 | | EXISTING LOAD | | | | | | | | | EXISTING LOAD | 4 |
| 5 | | EXISTING LOAD | | | 30 | 2 | | | | | EXISTING LOAD | 6 |
| 7 | | EXISTING LOAD | | | | | | | | | EXISTING LOAD | 8 |
| 9 | | EXISTING LOAD | | | 30 | 2 | | | | | EXISTING LOAD | 10 |
| 11 | | EXISTING LOAD | | | | | | | | | EXISTING LOAD | 12 |
| 13 | | EXISTING LOAD | | | 30 | 2 | | | | | EXISTING LOAD | 14 |
| 15 | | EXISTING LOAD | | | | | | | | | EXISTING LOAD | 16 |
| 17 | | EXISTING LOAD | | | 30 | 2 | | | | | EXISTING LOAD | 18 |
| 19 | | - | | | | | | | | | - | 20 |
| 21 | | SPACE | | | 20 | 1 | | | | | SPACE | 22 |
| 23 | | SPACE | | | 20 | 2 | | | | | SPACE | 24 |
| 25 | | SPACE | | | 20 | 1 | | | | | SPACE | 26 |
| 27 | | - | | | | | | | | | - | 28 |
| 29 | | - | | | | | | | | | - | 30 |
| TOTAL | | | | | | | | | | | TOTAL | |

TOTAL CONN. = , W / = A

PANEL: PANEL: A2 (NEW) NEMA4X ENCLOSURE

| SPACES 40 | MOUNTING SURFACE | LOCATION | MAIN LUG ONLY | | MAIN 200/2 BREAKER | VOLTAGE 120/240V 1Ø 3W | | MAIN BUS RAT. 225A | | FEED | DESCRIPTION | CKT. NO. |
|--------------|---------------------|----------------------|---------------|-------|-----------------------|---------------------------|-----|-----------------------|-------|------|---------------------|-------------|
| | | | A Ø | B Ø | | A Ø | B Ø | | | | | |
| 1 | | DRIVE AISLE POLE LTS | 1536 | | 30 | 2 | | | | | SPARE | 2 |
| 3 | | KIOSK A2-1 | 2980 | 1536 | 40 | 2 | | 1260 | | | EAST POLE LT RECPT. | 4 |
| 5 | | KIOSK A2-2 | 2980 | 2940 | 40 | 2 | | | | | WEST POLE LT RECPT | 6 |
| 7 | | KIOSK A2-3 | 2980 | 2940 | 40 | 2 | | | | | SPARE | 8 |
| 9 | | SPACE | | | 20 | 1 | | | | | SPARE | 10 |
| 11 | | SPACE | | | 20 | 1 | | 2940 | | | KIOSK A2-4 | 12 |
| 13 | | SPACE | | | 20 | 1 | | 2980 | | | - | 14 |
| 15 | | SPACE | | | 20 | 1 | | 2940 | | | KIOSK A2-5 | 16 |
| 17 | | SPACE | | | 20 | 1 | | 2980 | | | - | 18 |
| 19 | | SPACE | | | 20 | 1 | | 2940 | | | KIOSK A2-6 | 20 |
| 21 | | - | | | 20 | 1 | | 2980 | | | - | 22 |
| 23 | | - | | | 20 | 1 | | | | | SPACE | 24 |
| 25 | | - | | | 20 | 1 | | | | | - | 26 |
| 27 | | - | | | 20 | 1 | | | | | - | 28 |
| 29 | | - | | | 20 | 1 | | | | | - | 30 |
| 31 | | - | | | 20 | 1 | | | | | - | 32 |
| 33 | | - | | | 20 | 1 | | | | | - | 34 |
| 35 | | - | | | 20 | 1 | | | | | - | 36 |
| 37 | | - | | | 20 | 1 | | | | | - | 38 |
| 39 | | - | | | 20 | 1 | | | | | - | 40 |
| TOTAL | | | 10476 | 10356 | | | | 10020 | 10080 | | TOTAL | |

TOTAL CONN. = 40932 W / 240 V = 170.6 A

* CONTROLLED BY 6 POLE RELAY

DEMAND LOAD DATA

| | |
|-------------|----------------------|
| LTG | 3072W |
| RECEPT | 2340W |
| KIOSK PANEL | 24492W |
| | 29904W / 240V = 125A |

PANEL: A2-1 (A2-2, A2-3, A2-4, A2-5, A2-6 SIMILAR)

FURNISHED PREV/RED WITH KIOSK BY KIOSK MFR

| SPACES 30 | MOUNTING SURFACE | LOCATION | MAIN LUG ONLY | | MAIN BREAKER | VOLTAGE 120/240V 1Ø 3W | | MAIN BUS RAT. | | FEED | DESCRIPTION | CKT. NO. |
|--------------|---------------------|---------------------|---------------|-----|-----------------|---------------------------|-----|------------------|------|------|-------------------|-------------|
| | | | A Ø | B Ø | | A Ø | B Ø | | | | | |
| 1 | | KIOSK LTS | 400 | | 20 | 1 | | | | | ROOF A/C | 2 |
| 3 | | KIOSK COUNTER RECPT | | | 20 | 1 | | 1776 | | | ELEC CAB | 4 |
| 5 | | KIOSK COUNTER RECPT | 180 | 360 | 20 | 1 | | 2400 | 2400 | | HEATER | 6 |
| 7 | | KIOSK COUNTER RECPT | | | 20 | 1 | | | 360 | | IT CAB RECEPTACLE | 8 |
| 9 | | SPACE | | | 20 | 1 | | | | | SPACE | 10 |
| 11 | | SPACE | | | 20 | 1 | | | | | SPACE | 12 |
| 13 | | SPACE | | | 20 | 1 | | | | | SPACE | 14 |
| 15 | | SURGE SUPPRESSOR | | | 30 | 2 | | | | | SPACE | 16 |
| 17 | | - | | | | | | | | | - | |
| TOTAL | | | 580 | 540 | | | | 4176 | 2760 | | TOTAL | |

TOTAL CONN. = 8056W/240V = 33.6 A
DEMAND LOAD = 6280W/240V = 26A

* FOR PANEL A2-1 ONLY

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PLOT DATE = 5/6/2013

DESIGNED - WK
DRAWN - FI
CHECKED - VT
DATE - 05/13/2013

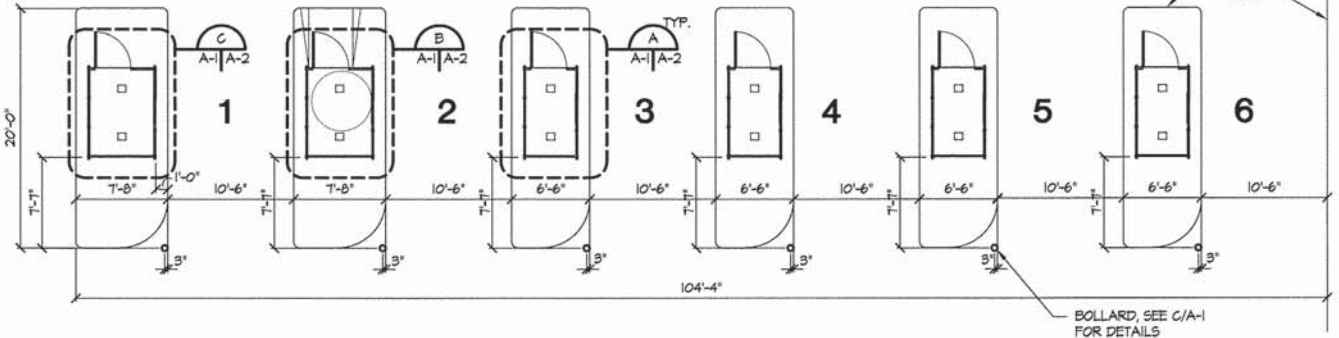
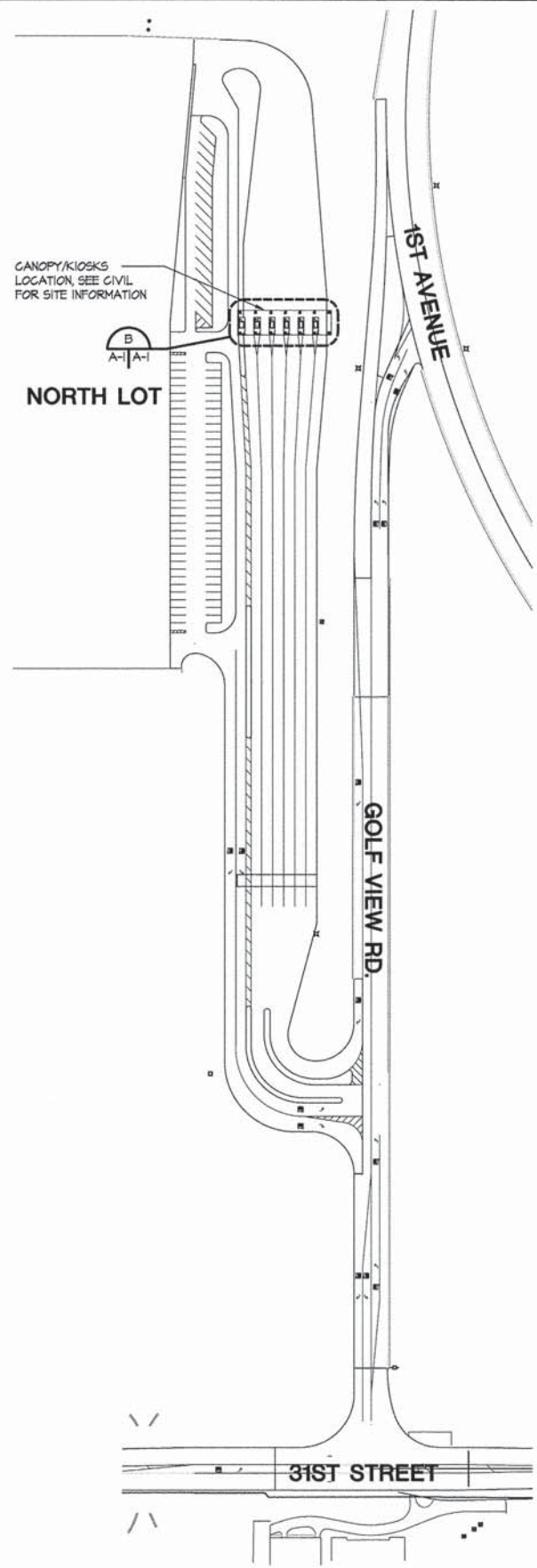
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

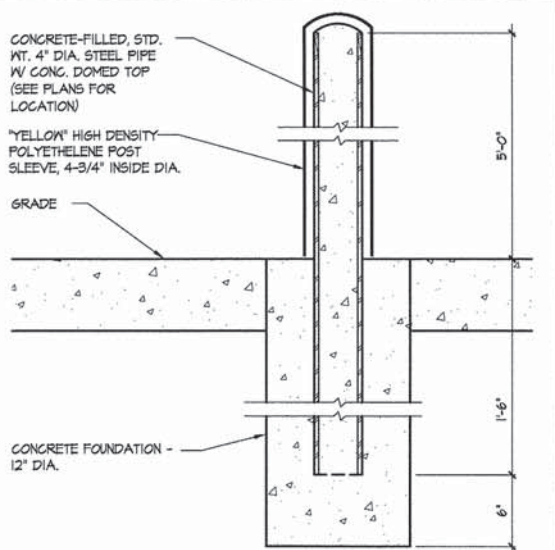
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SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

| | | | | |
|---|----------------|--------|--------------|-----------|
| F.A.U. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 3784 | 12-F3000-23-PK | COOK | 131 | 107 |
| CONTRACT NO. 63764 | | | | |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT | | | | |



FLOOR PLAN
1/8"=1'-0"



BUMPER POST DETAIL
1/2"=1'-0"

OVERALL SITE
1"=100'



The Jenkins Group
Architects | Interiors | Planning
300 Park Blvd., Suite 250
Itasca, Illinois 60143
Tel: 630.250.9100 Fax: 630.250.9177
www.thejenkinsgroup.com

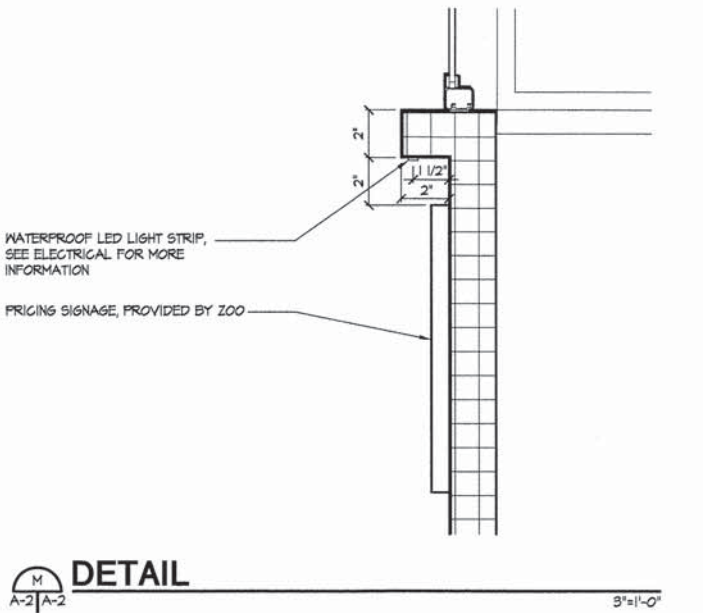
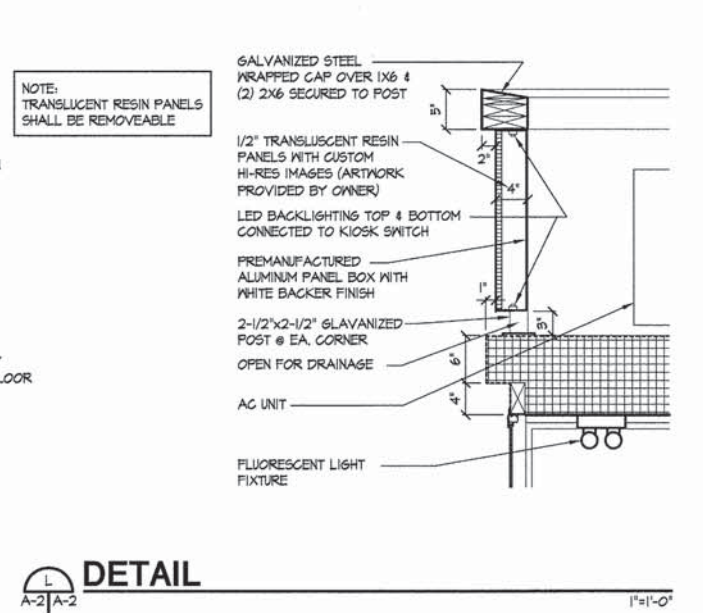
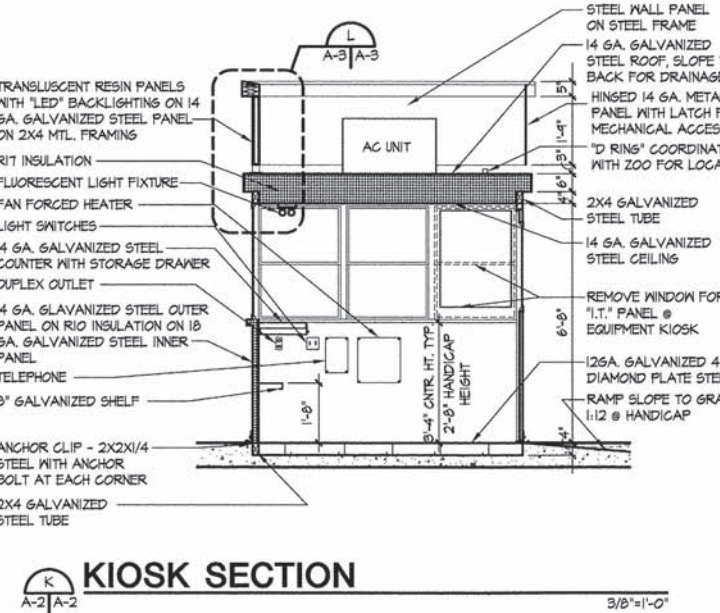
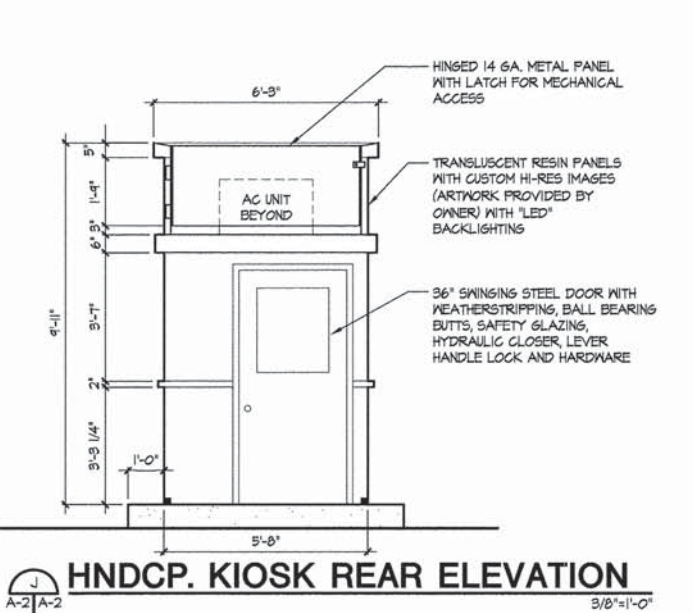
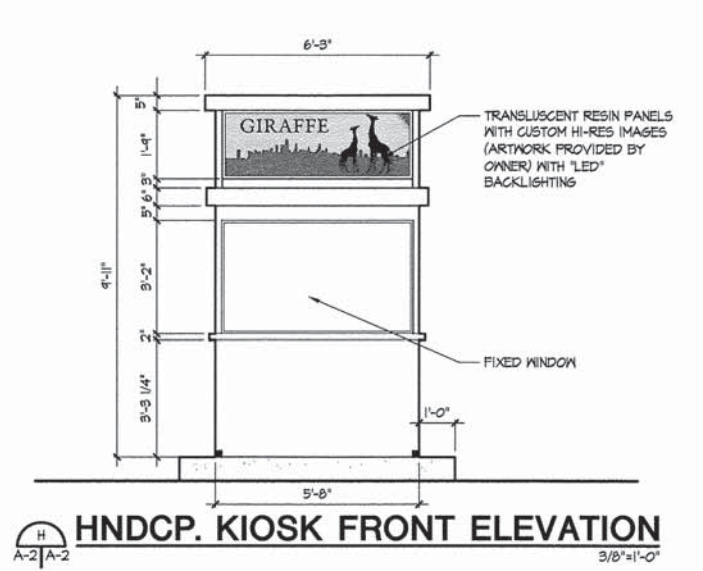
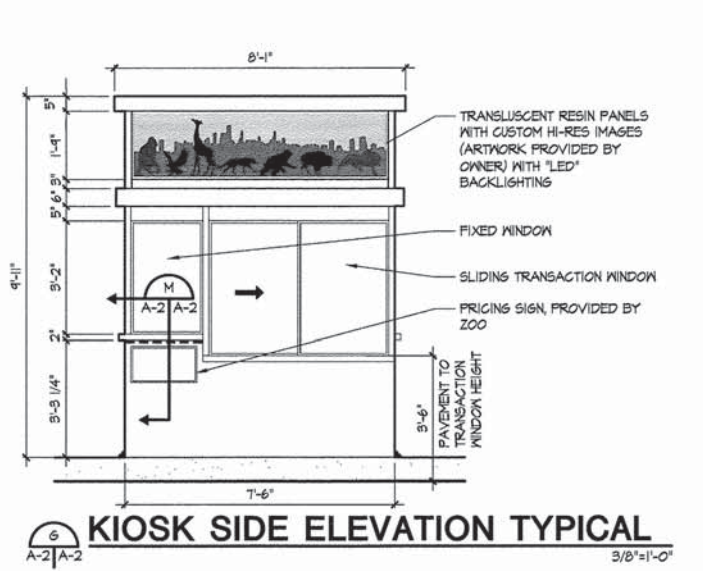
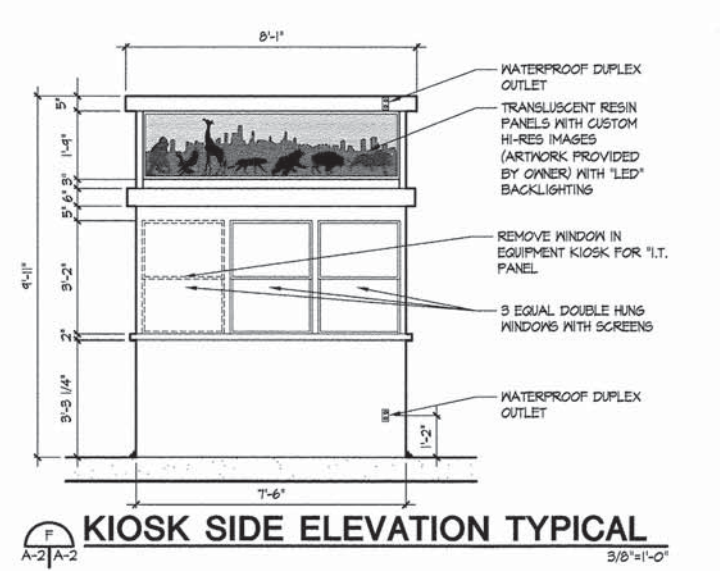
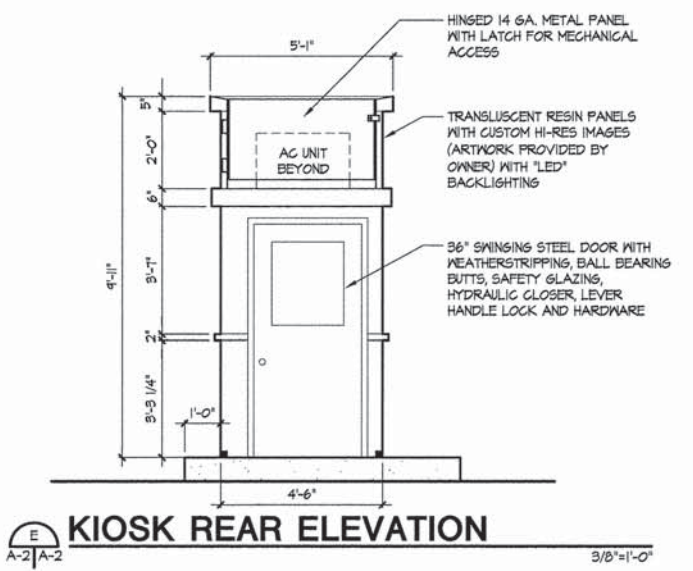
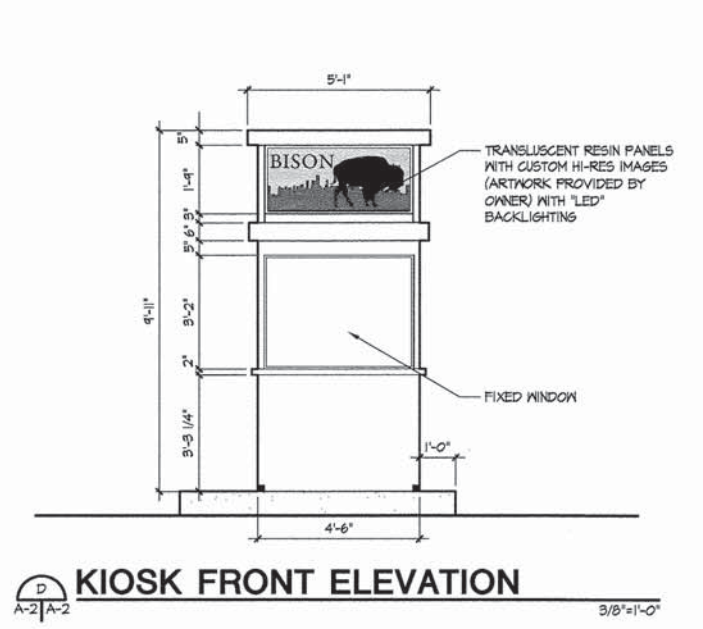
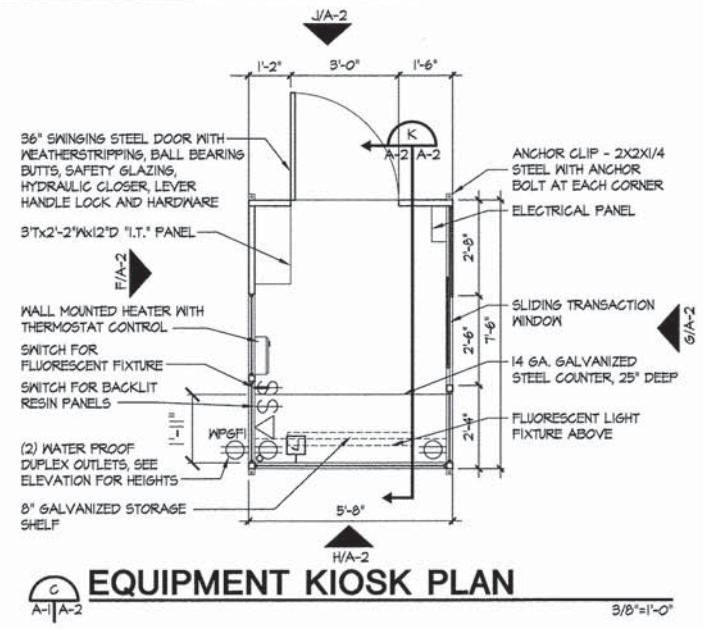
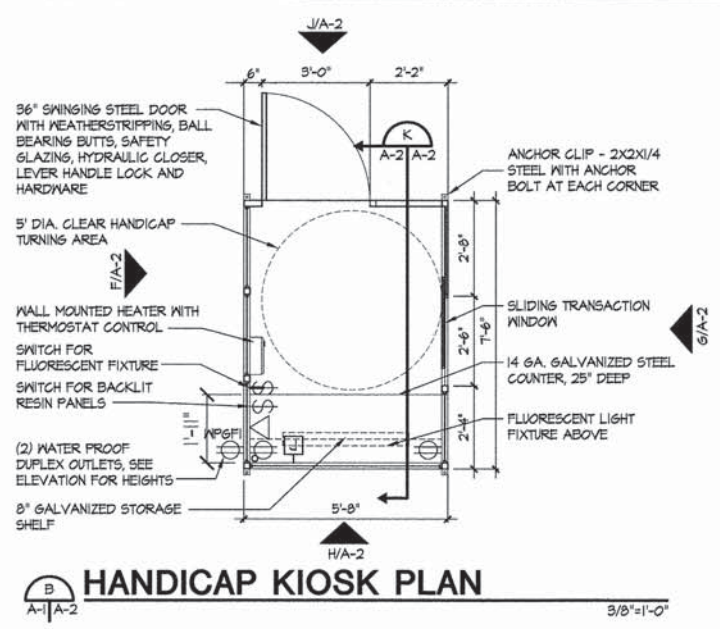
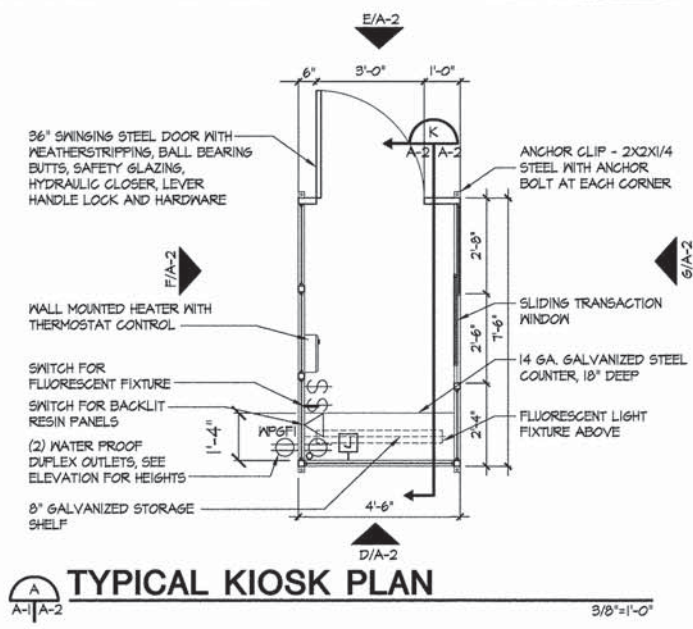
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| DRAWN | — M. LANGE | REVISED | — |
| DESIGNED | — M. LANGE | REVISED | — |
| CHECKED | — G. HATLESTAD | REVISED | — |
| DATE | — APRIL 11, 2013 | REVISED | — |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BROOKFIELD ZOO
PLANS AND DETAILS

SHEET NO. A-1

| F.A.U. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|---------------|--------|--------------|-----------|
| 3784 | 06-0019-00-PK | COOK | 131 | 108 |
| ILLINOIS FED. AID PROJECT | | | | |



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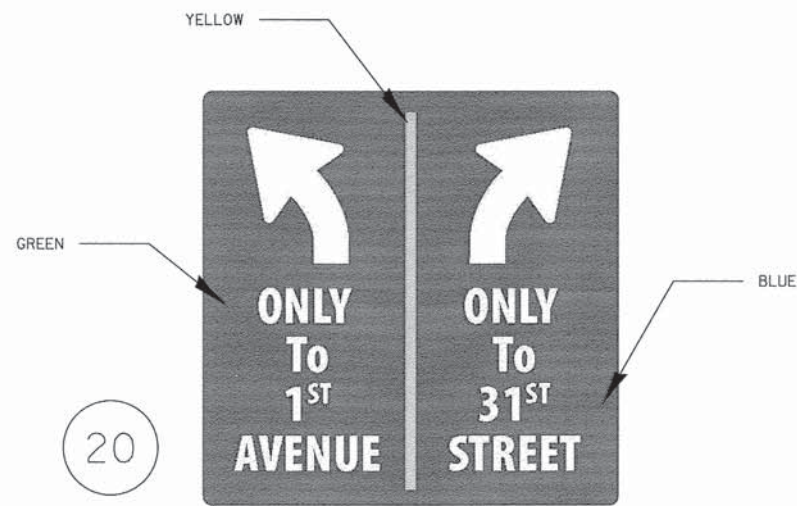
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| DRAWN | M. LANGE | REVISED | |
| DESIGNED | M. LANGE | REVISED | |
| CHECKED | G. HATLESTAD | REVISED | |
| DATE | APRIL 11, 2013 | REVISED | |

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BROOKFIELD ZOO
 KIOSK DETAILS

| | | | | |
|-------------|---------------|--------|--------------|-----------|
| F.A.U. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 3784 | 06-0019-00-PK | COOK | 131 | 109 |

ILLINOIS FED. AID PROJECT



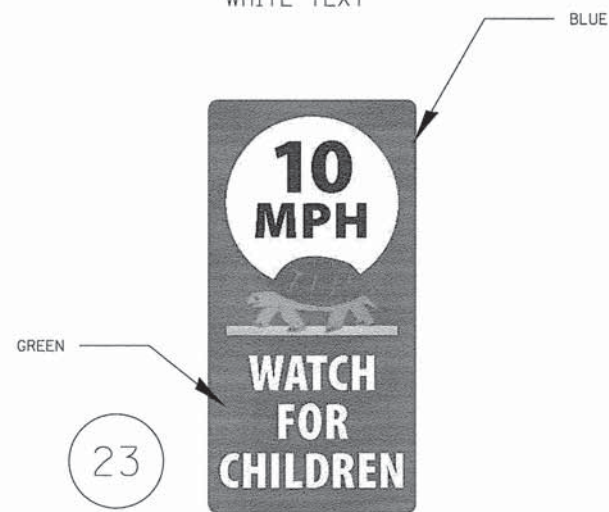
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WHITE TEXT



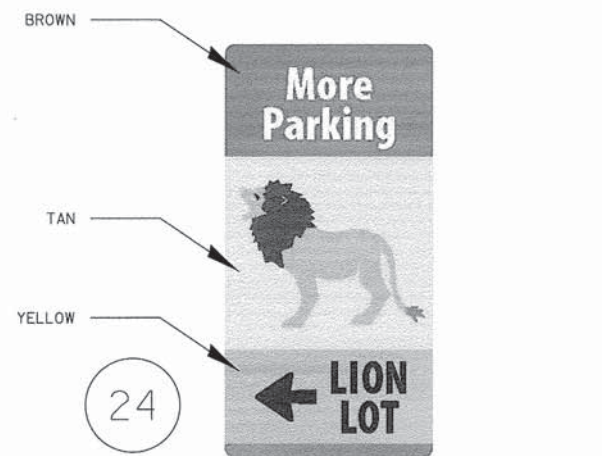
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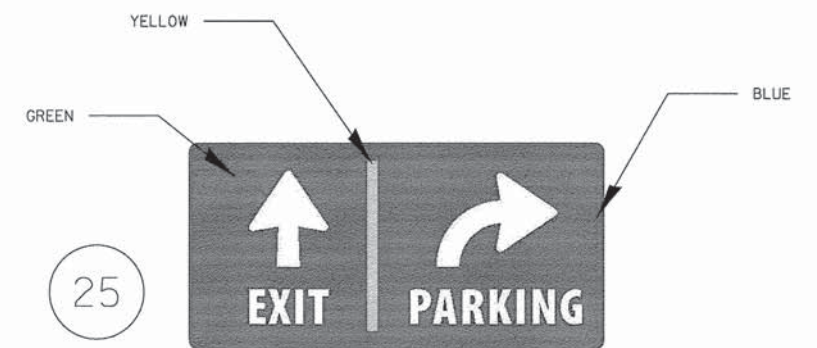
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DOUBLE POST
WHITE TEXT



DIMENSIONS: 22" X 44"
SINGLE POST
TOP - BLACK TEXT / BOTTOM - WHITE TEXT



DIMENSIONS: 22" X 44"
SINGLE POST
TOP - WHITE TEXT / BOTTOM - BLACK TEXT



DIMENSIONS: 44" X 22"
DOUBLE POST
WHITE TEXT



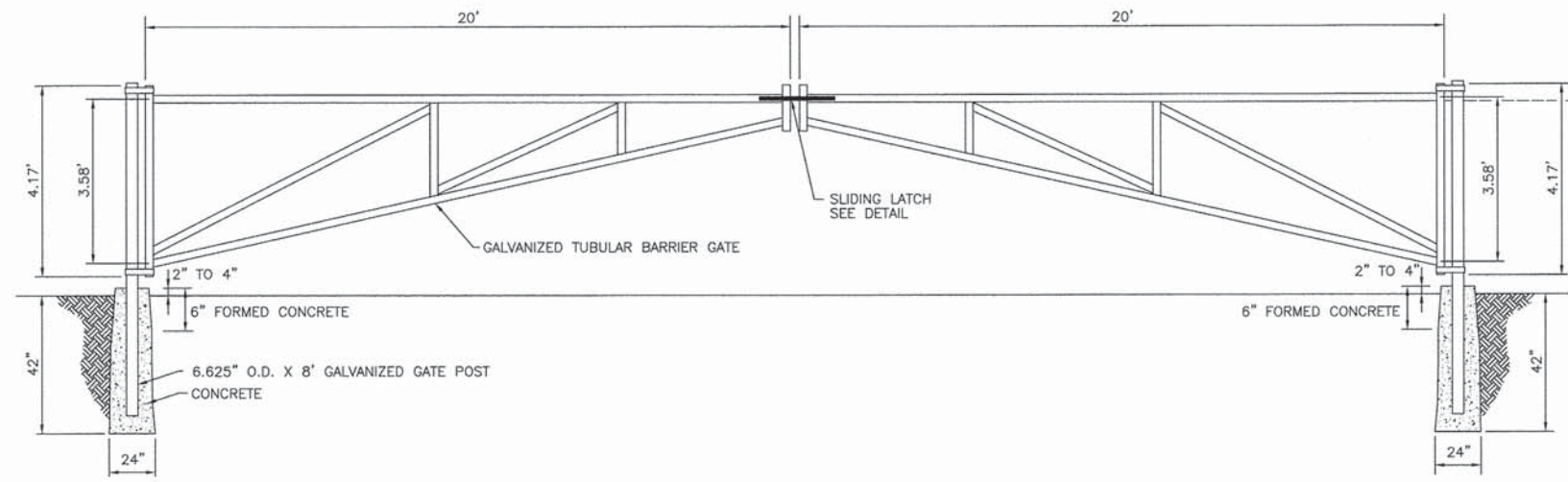
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WHITE TEXT



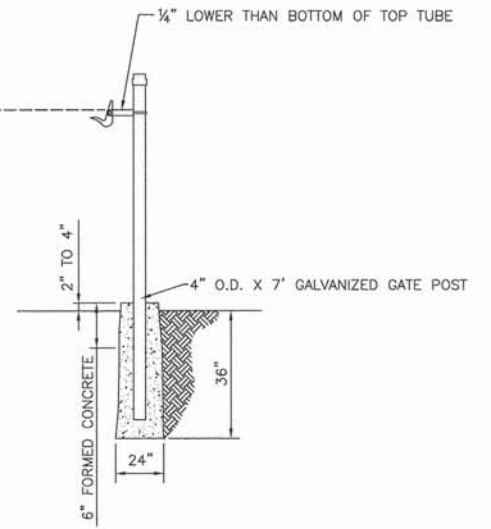
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BLACK TEXT



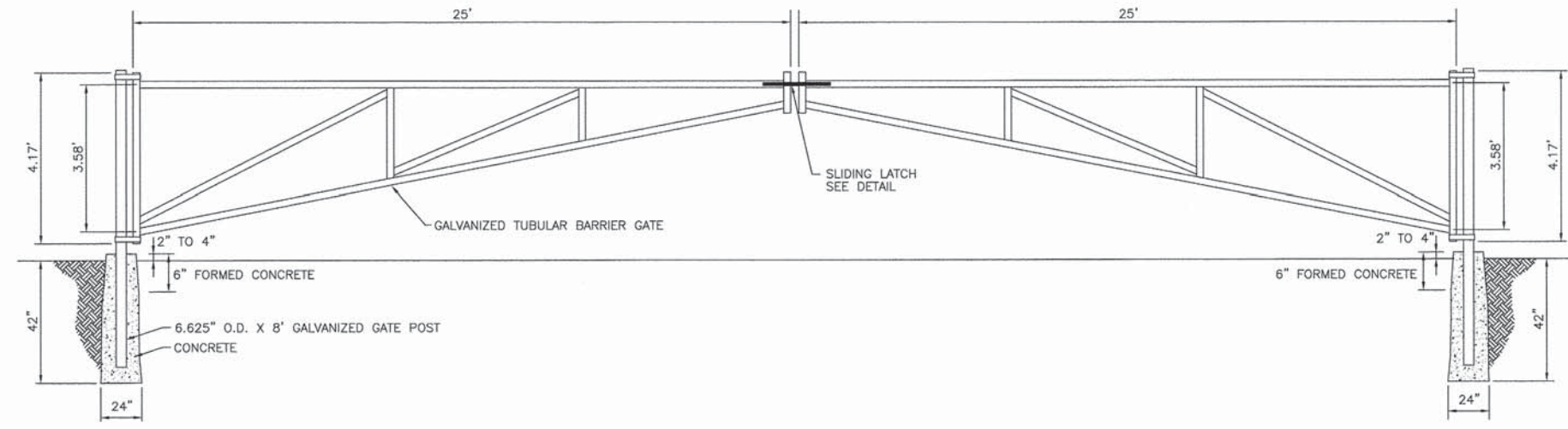
STANDARD STOP SIGN
SINGLE POST



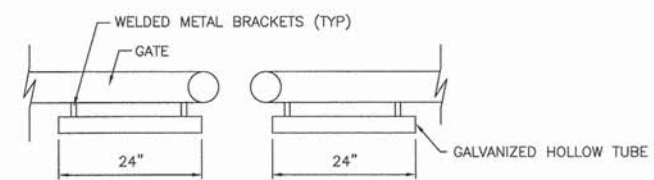
ACCESS GATE, DOUBLE, 40 FOOT
NOT TO SCALE



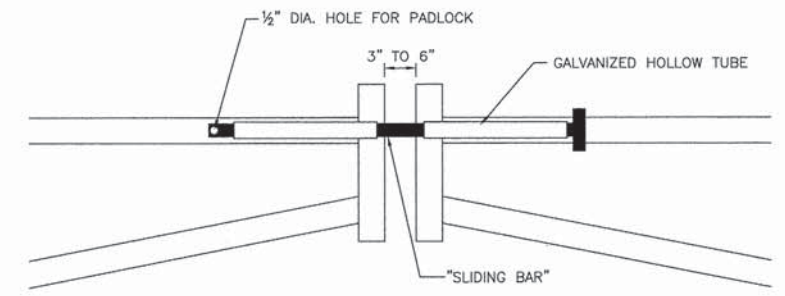
GATE STOP POST
NOT TO SCALE
GATE STOP POST SHALL BE INCLUDED IN THE COST OF THE ACCESS GATE



ACCESS GATE, DOUBLE, 50 FOOT
NOT TO SCALE



TOP VIEW

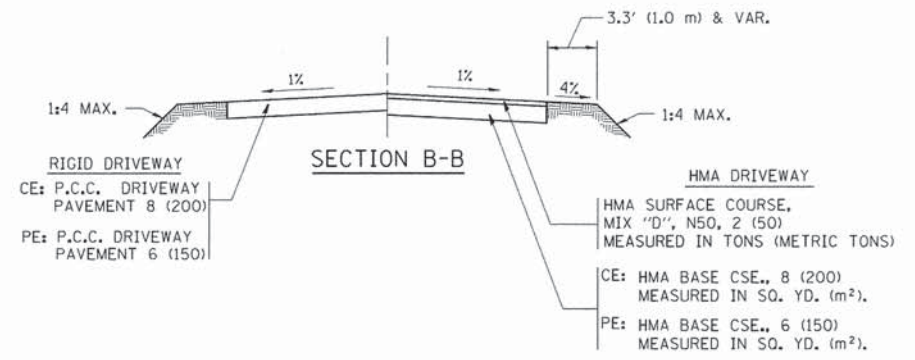
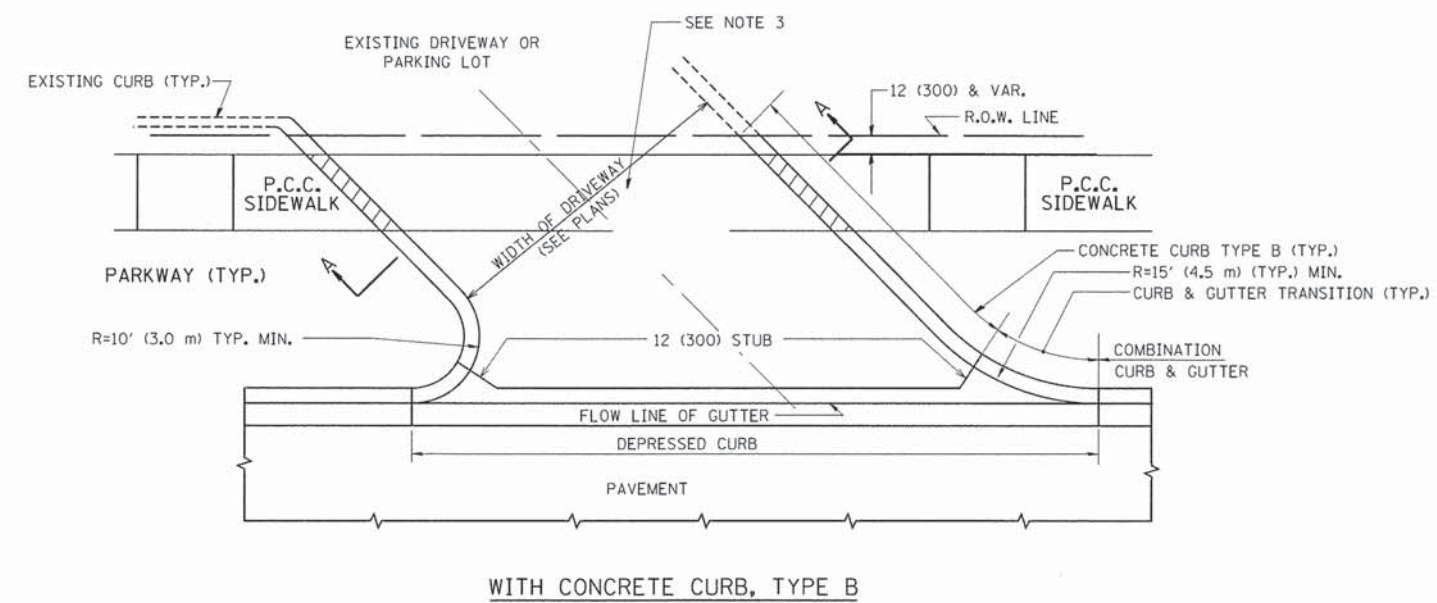
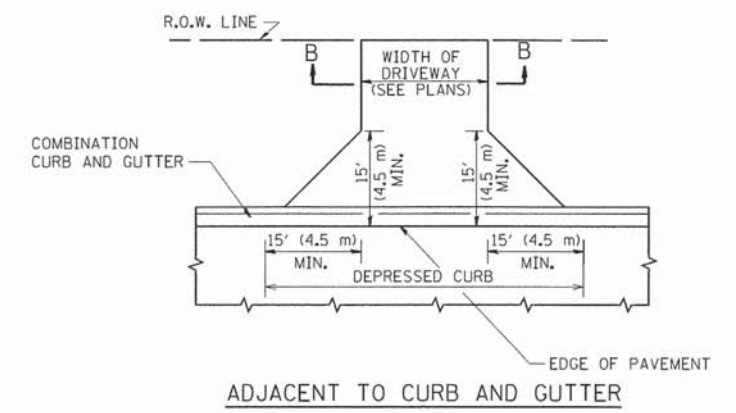
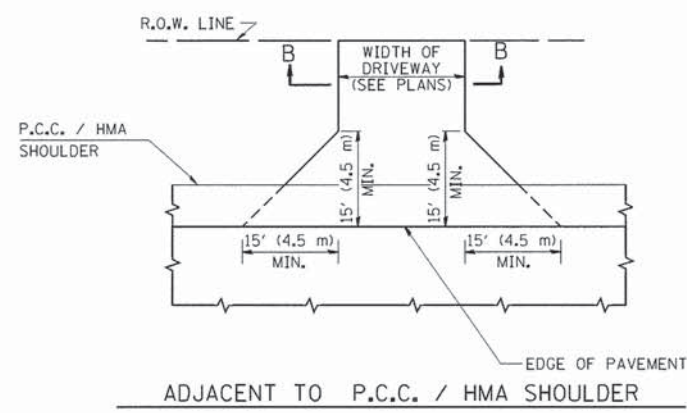
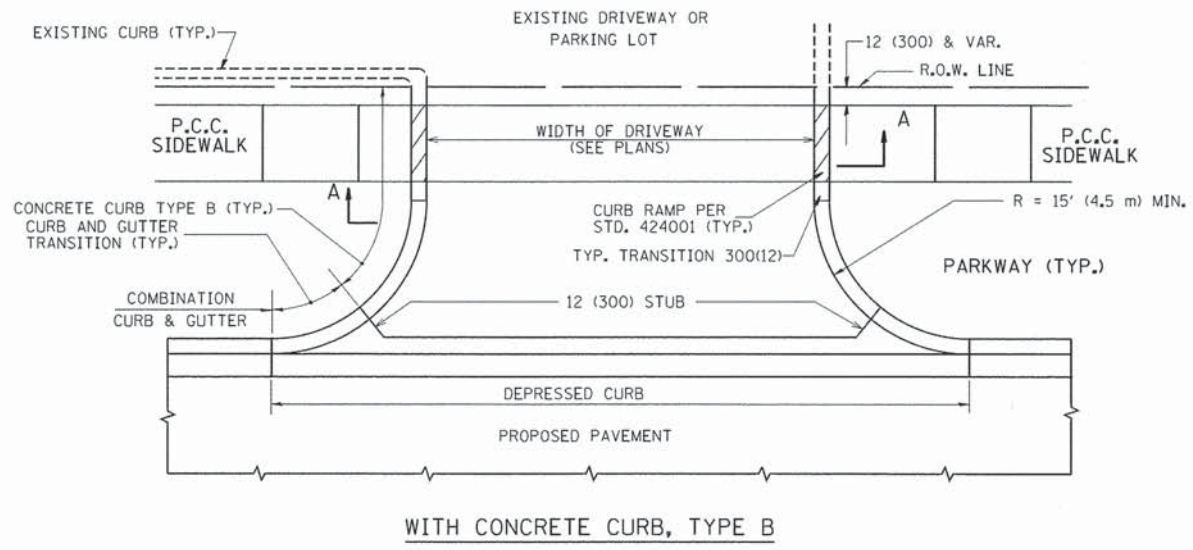


SLIDING LATCH
NOT TO SCALE

FRONT VIEW

- NOTES
1. THE SLIDING BAR SHALL HAVE ENOUGH LENGTH TO SLIDE THROUGH BOTH HOLLOW TUBES TO ALLOW FOR THE DRILLED HOLE TO BE EXPOSED ALLOWING A PADLOCK TO LOCK THE BAR IN PLACE.
 2. THE COST OF THE SLIDING LATCH SHALL BE INCLUDED IN THE COST OF THE ACCESS GATE.
 3. POST HOLES SHALL BE EXCAVATED TO FLARE OUTWARDS AS THE HOLE DEEPENS.

| | | | | | | | | | | | | | |
|---|------------------------------|-------------------|-----------|---|----------------|-------------------------|------|----------------|---|----------------|-----------------|--------------|-----|
| FILE NAME = ...sheet\Details\2563_DET_03.dgn | USER NAME = dte | DESIGNED - DTE | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | DETAILS | | | F.A.U. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | |
| | PLOT SCALE = 50,0000' / 1" = | DRAWN - DTE | REVISED - | | SCALE: N.T.S. | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA. | 3784 | 12-F3000-23-PK | MCHENRY | 131 | 111 |
| | PLOT DATE = 5/6/2013 | CHECKED - GAB | REVISED - | | | | | | CONTRACT NO. 63764 | | | | |
| | | DATE - 05/13/2013 | REVISED - | | | | | | FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT | | | | |



RURAL FIELD ENTRANCE (FE)
 HMA SURFACE COURSE, MIX "D", N50, 2 (50) MEASURED IN TONS (METRIC TONS)
 AGGREGATE BASE CSE., TYPE B, 8 (200) MEASURED IN SQ. YD. (m²).

GENERAL NOTES:

DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS". FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATIONS IN THE PERMIT HANDBOOK. DRIVEWAYS SHALL BE REPLACED IN KIND, UNLESS OTHERWISE NOTED ON THE PLANS.

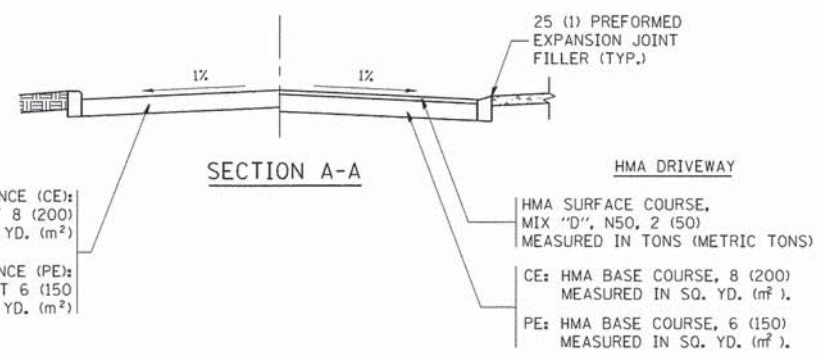
COMMERCIAL DRIVEWAYS SHALL BE CONSTRUCTED WITH CONCRETE CURB, TYPE B RETURNS EXCEPT WHEN THE SIDEWALK EDGE IS 4 FEET (1.2 METERS) OR LESS FROM THE BACK OF CURB, CONSTRUCT A FLARE DRIVEWAY WITHOUT CURB.

THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC PERMIT OFFICE AT 847/ 705-4131 FOR ANY QUESTIONS ON DRIVEWAYS SHOWN IN THE PLANS; SPECIFICALLY IN REFERENCE TO ADDITIONAL AND/OR RELOCATION/REMOVAL OF A DRIVEWAY.

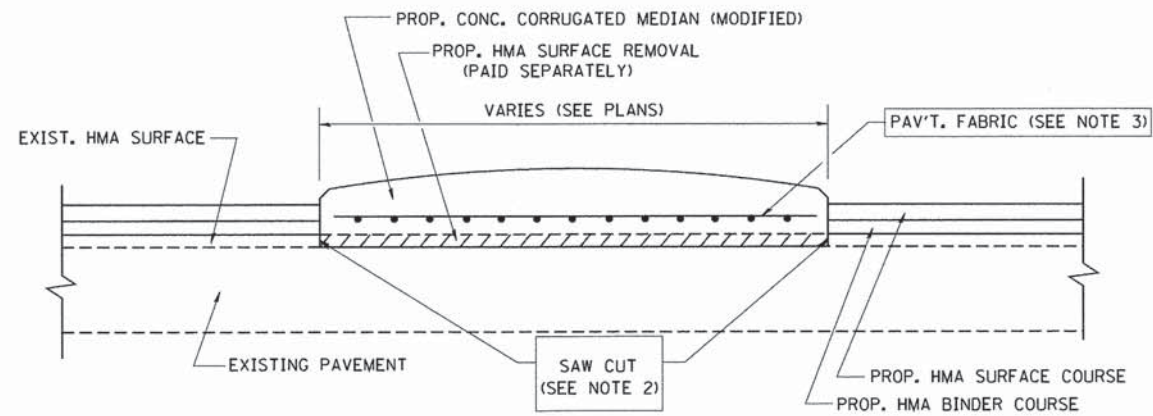
COMBINATION CONCRETE CURB & GUTTER SHALL BE MEASURED STRAIGHT ACROSS THE DRIVEWAY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THE CURB & GUTTER TRANSITION.

1 (25) PREFORMED EXPANSION JOINT FILLER WILL NOT BE PAID SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE P.C.C. DRIVEWAY PAVEMENT OR P.C.C. SIDEWALK.

WHEN THE P.C.C. SIDEWALK EXTENDS THROUGH THE DRIVEWAY, THE THICKNESS OF THE SIDEWALK IN THE DRIVEWAY AREA SHALL BE THE SAME AS THE DRIVEWAY THICKNESS. SIDEWALK WILL BE PAID FOR AS P.C.C. SIDEWALK OF THE THICKNESS SPECIFIED. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.



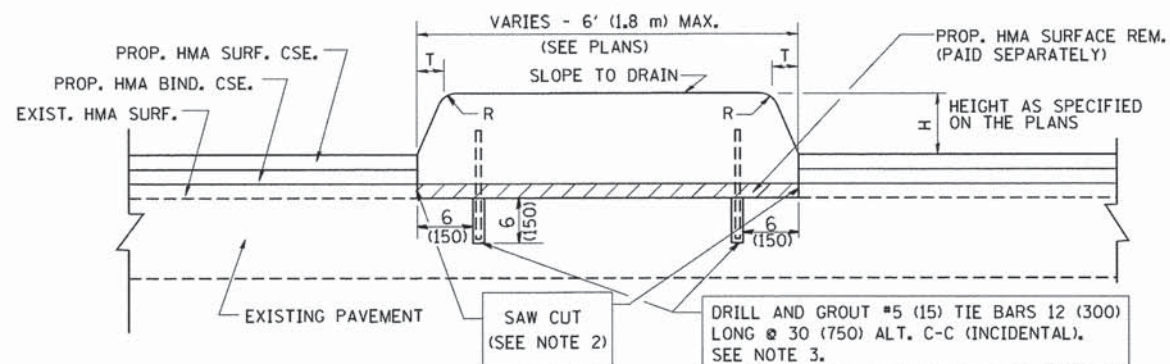
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| FILE NAME = | USER NAME = lqysa | DESIGNED - R. SHAH | REVISED - P. LOFLUER 04-15-03 | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W. AND FACE OF CURB & EDGE OF SHOULDER >= 15' (4.5 m) | F.A.U. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | |
| 02\pwork\pwork\lqysa\0818315\bd01.dgn | PLOT SCALE = 50.0000' / 1" | DRAWN - | REVISED - R. BORO 01-01-07 | | | 3784 | 12-F3000-23-PK | MCHENRY | 131 | 112 | |
| PLOT DATE = 9/6/2011 | DATE - 11-04-95 | CHECKED - | REVISED - R. BORO 06-11-08 | | | BD0156-07 (BD-01) | | CONTRACT NO. 63764 | | | |
| | | DATE - 11-04-95 | REVISED - R. BORO 09-06-11 | | | SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA. | | FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT |



- NOTES:
1. CORRUGATED MEDIAN (MODIFIED) SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 606 OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE PORTIONS OF STATE STANDARD 606306.
 2. WITH THE APPROVAL OF THE ENGINEER, THE CONTRACTOR MAY DELETE THE SAW CUT IF A NEAT JOINT CAN BE OBTAINED BY MILLING THE HMA SURFACE TO BE REMOVED. SAW CUT WILL BE INCLUDED IN THE COST OF CORRUGATED MEDIAN (MODIFIED)
 3. PAVEMENT FABRIC WILL BE INCLUDED IN THE COST OF CORRUGATED MEDIAN (MODIFIED)

DETAILS FOR CORRUGATED MEDIAN (MODIFIED)

THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT (SQUARE METER) FOR "CORRUGATED MEDIAN (MODIFIED)"



- NOTES:
1. CONCRETE MEDIAN TYPE SB (DOWELLED) SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF STATE STANDARD 606301 AND SECTION 606 OF THE STANDARD SPECIFICATIONS.
 2. WITH THE APPROVAL OF THE ENGINEER, THE CONTRACTOR MAY DELETE THE SAW CUT IF A NEAT JOINT CAN BE OBTAINED BY MILLING THE HMA SURFACE TO BE REMOVED. SAW CUT WILL BE INCLUDED IN THE COST OF "CONCRETE MEDIAN TYPE SB (DOWELLED)"
 3. FOR MEDIAN WIDTH LESS THAN 4' (1.2 m) USE ONE ROW OF #5 (15) BARS @ 30 (750) C-C ALONG THE MEDIAN CENTERLINE. TIE BARS WILL BE INCLUDED IN THE COST OF "CONCRETE MEDIAN TYPE SB (DOWELLED)"

DETAILS FOR CONCRETE MEDIAN

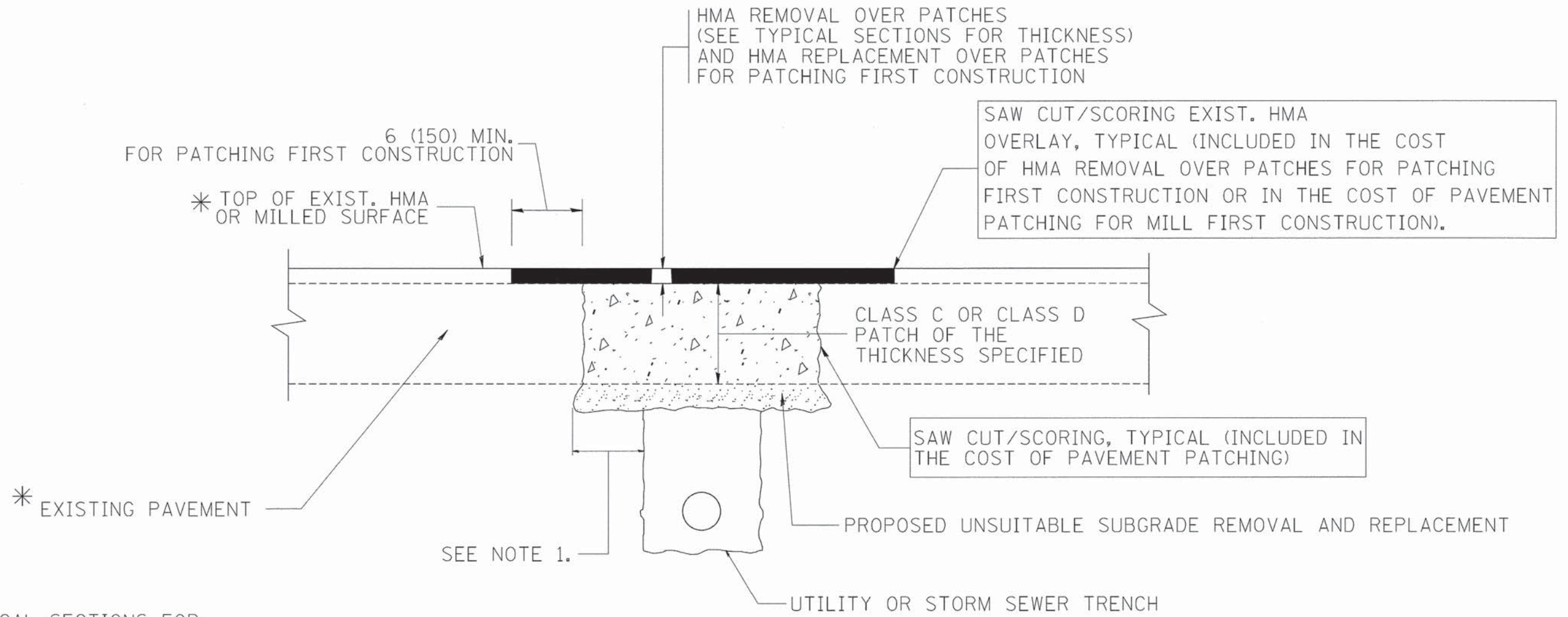
TYPE SB (DOWELLED)

THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT (SQUARE METER) FOR "CONCRETE MEDIAN TYPE SB (DOWELLED)"

| H | R | T |
|--------|-------|-------|
| 6(150) | 1(25) | 1(25) |
| 9(225) | 1(25) | 2(50) |

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

| | | | | | | | | | | | | |
|--|-----------------------------|-----------------------|-----------------------------|---|--|-------------------------|----------------|---------|--------|---|--------------|--------------------|
| FILE NAME = W:\diststd\22x34\bd05.dgn | USER NAME = geglianobt | DESIGNED - M. DE YONG | REVISED - R. SHAH 09-09-94 | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | DETAILS FOR CONCRETE MEDIAN TYPE SB (DOWELLED) CORRUGATED MEDIAN (MODIFIED) | | F.A.U. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | |
| | PLOT SCALE = 50.0000' / IN. | CHECKED - | REVISED - R. SHAH 10-25-94 | | SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA. | 3784 | 12-F3000-23-PK | MCHENRY | 131 113 |
| | PLOT DATE = 1/4/2008 | DATE - 05-14-90 | REVISED - E. GOMEZ 08-28-00 | | | | | | | BD600-02 (BD-5) | | CONTRACT NO. 63764 |
| | | | REVISED - R. BORO 01-01-07 | | | | | | | FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT | | |



* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

NOTES:

1. THE WIDTH OF THE FULL DEPTH PATCH OVER A TRENCH SHALL BE 12 (300) WIDER ON EACH SIDE OF THE TRENCH.
2. FOR METHOD OF MEASUREMENT AND BASIS OF PAYMENT, SEE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL".

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

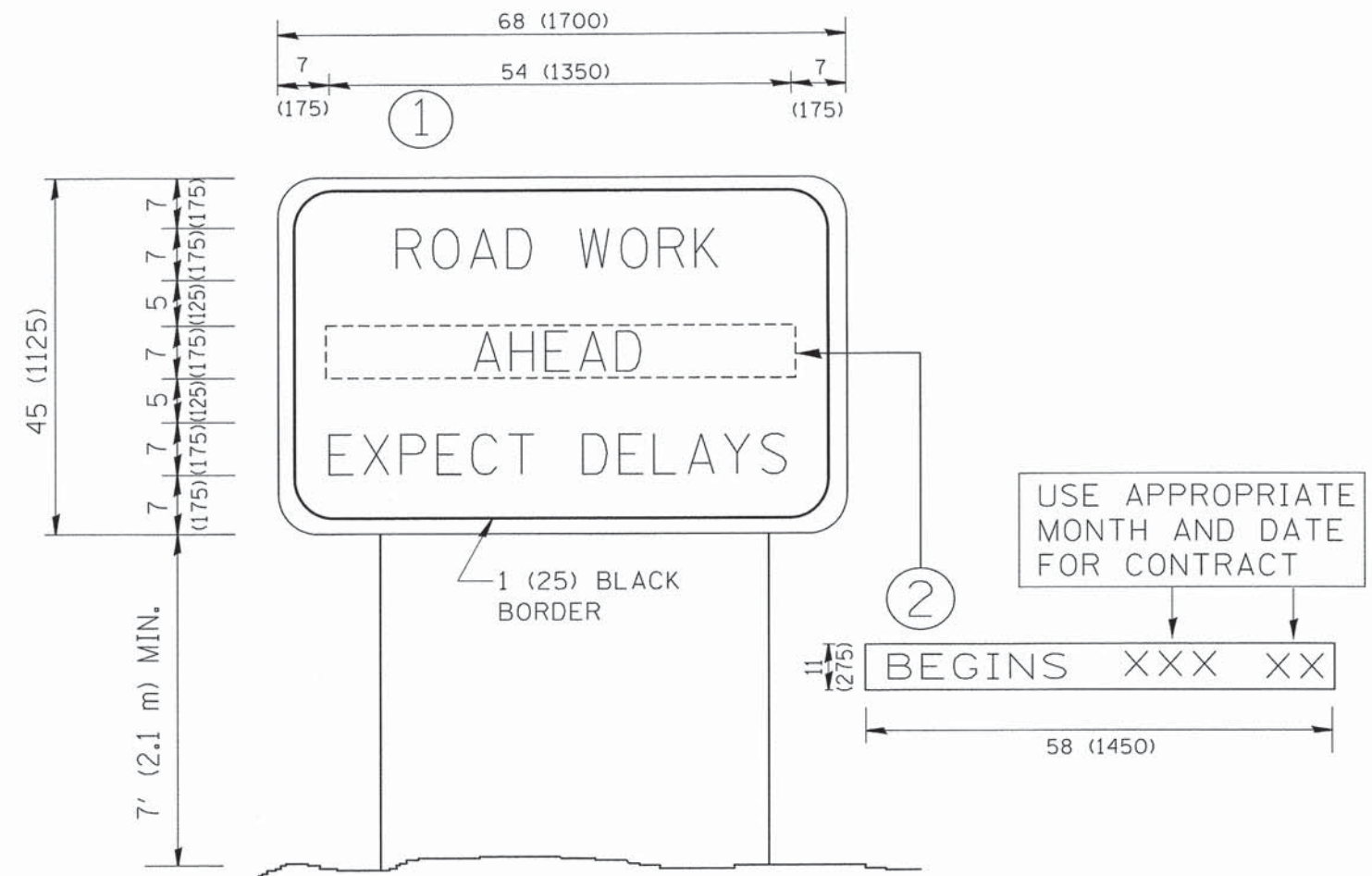
1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

1. MILL HMA FIRST IF THERE IS AT LEAST 4 1/2 INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

| | | | | | | | | | | | | | | | |
|--|---------------------|-----------------------------|-----------------------------|---|--|-------------|------|----------------|---------|---------|-----------------|-------------------------|---------|-----|-----|
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| | | DRAWN - | REVISED - R. BORO 01-01-07 | | SCALE: NONE | SHEET NO. 1 | OF 1 | SHEETS | STA. | TO STA. | 3784 | 12-F3000-23-PK | MCHENRY | 131 | 114 |
| | | PLOT SCALE = 50,000 ' / IN. | REVISED - R. BORO 09-04-07 | | | | | | | | | BD400-04 (BD-22) | | | |
| | | PLOT DATE = 10/27/2008 | REVISED - K. ENG 10-27-08 | | | | | | | | | CONTRACT NO. 63764 | | | |



NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

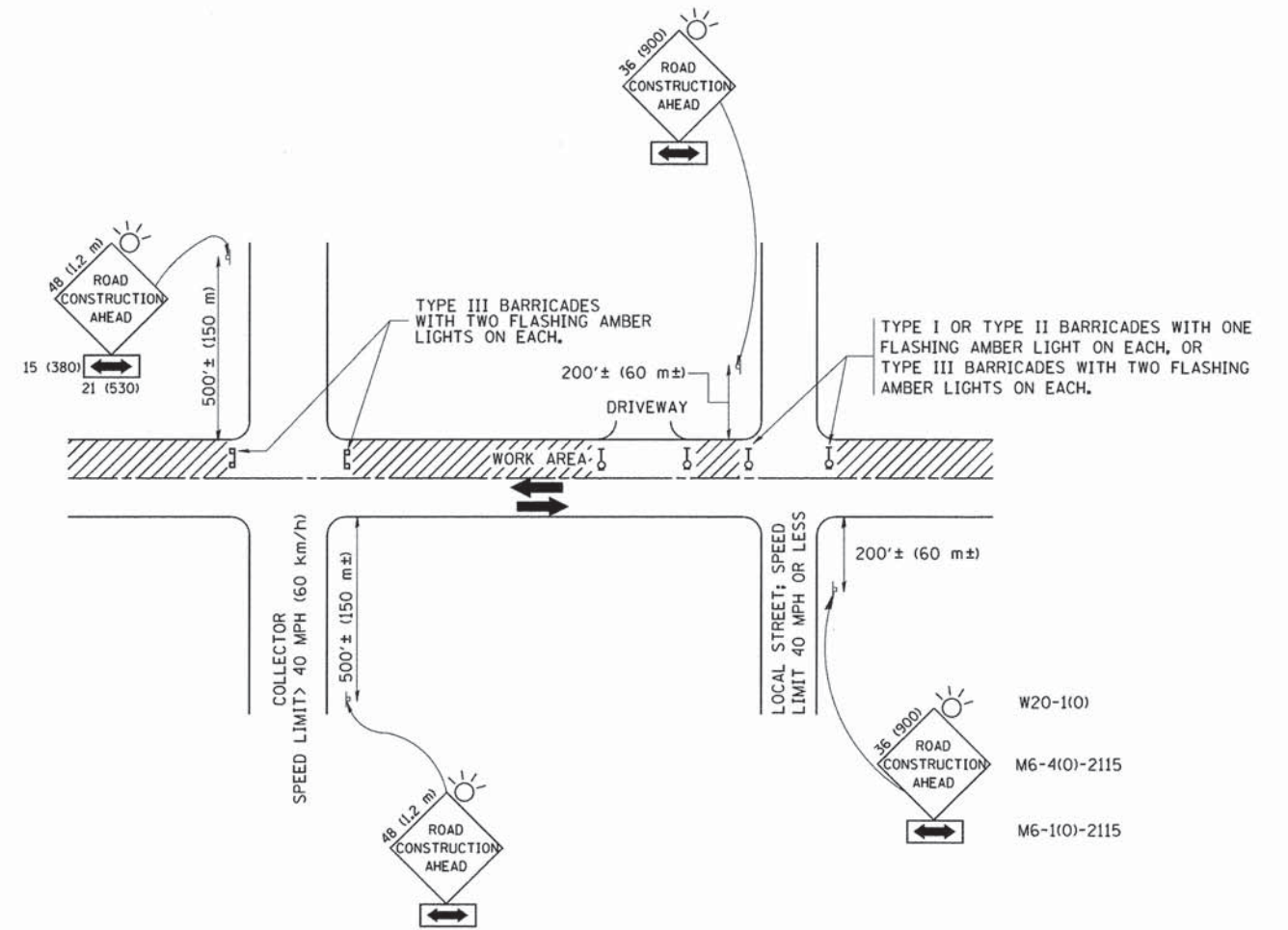
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| | | DRAWN - | REVISED - R. MIRS 12-11-97 |
| | PLOT SCALE = 50.000 ' / IN. | CHECKED - | REVISED - T. RAMMACHER 02-02-99 |
| | PLOT DATE = 1/4/2008 | DATE - | REVISED - C. JUCIUS 01-31-07 |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD
INFORMATION SIGN**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

| F.A.U. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|----------------|---------|--------------------|-----------|
| 3784 | 12-F3000-23-PK | MCHENRY | 131 | 115 |
| TC-22 | | | CONTRACT NO. 63764 | |
| FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT | | | | |



TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

NOTES:

A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:

a) ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.

b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.

2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:

a) ONE ROAD CONSTRUCTION AHEAD SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.

b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.

3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:

USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.

C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.

D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

All dimensions are in millimeters (inches) unless otherwise shown.

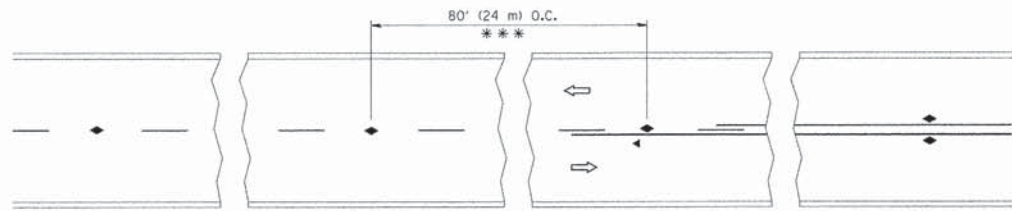
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| | PLOT DATE = 1/4/2008 | DATE - 06-89 | REVISED - T. RAMMACHER 01-06-00 |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION FOR
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

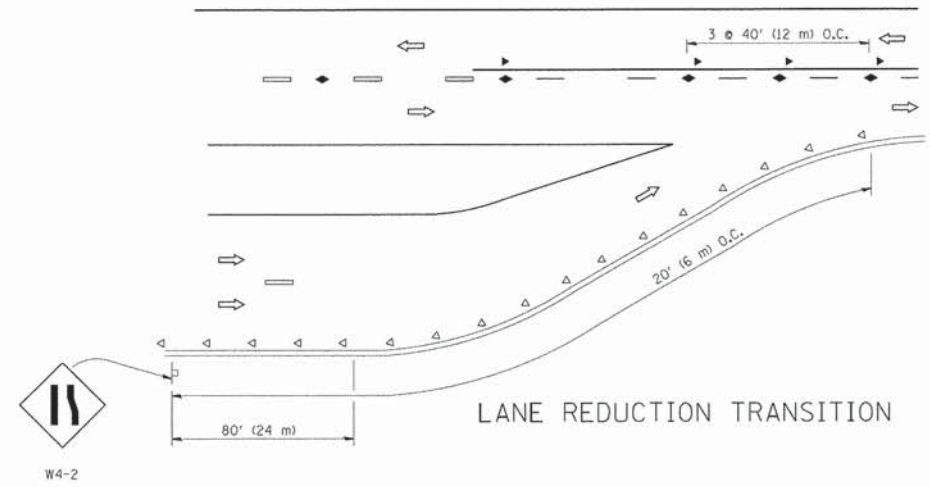
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| F.A.U. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
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| 3784 | 12-F3000-23-PK | MCHENRY | 131 | 116 |
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| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT | | | | |

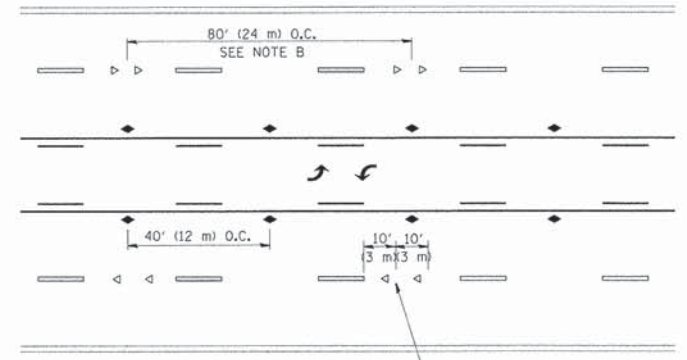


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

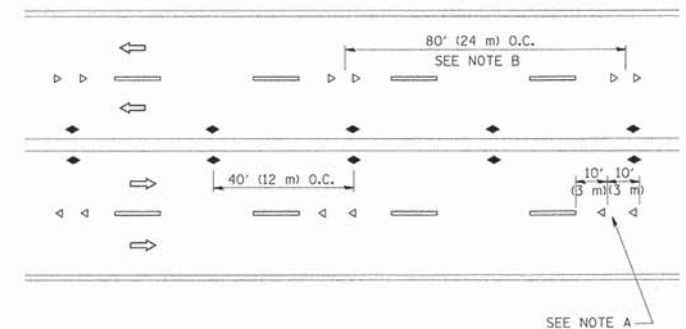
TWO-LANE/TWO-WAY



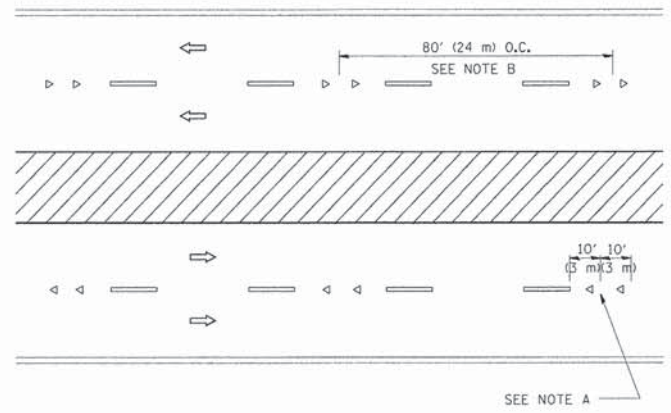
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

SYMBOLS

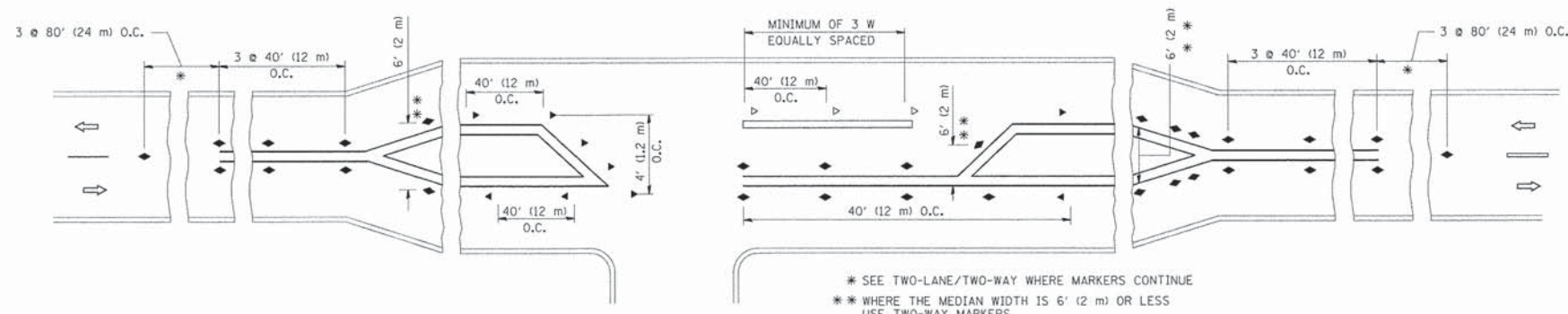
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

LANE MARKER NOTES

- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H. (20 km/h) LOWER THAN POSTED SPEEDS.

DESIGN NOTES

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHOULD BE INCLUDED IN THE PLANS.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.

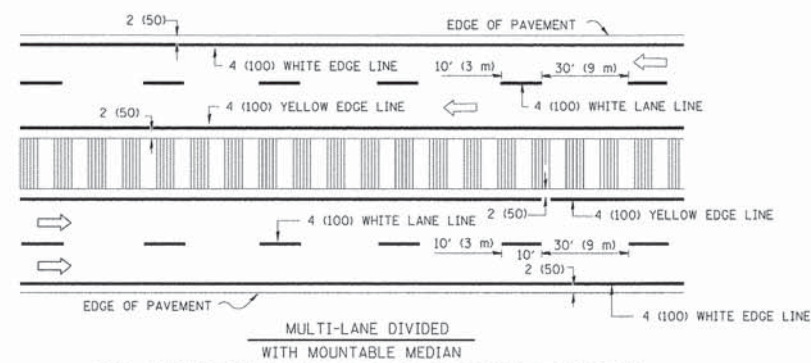
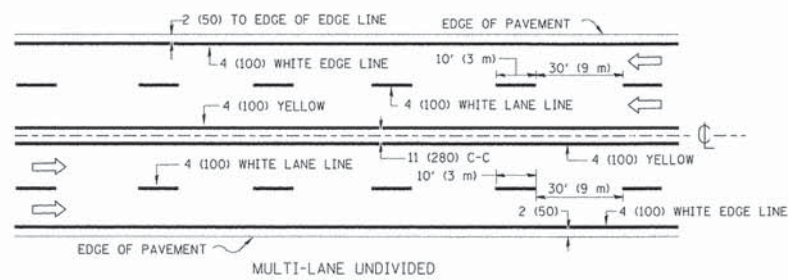
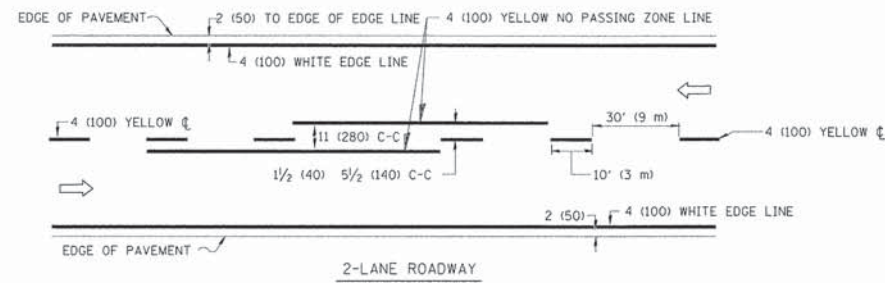


LEFT TURN

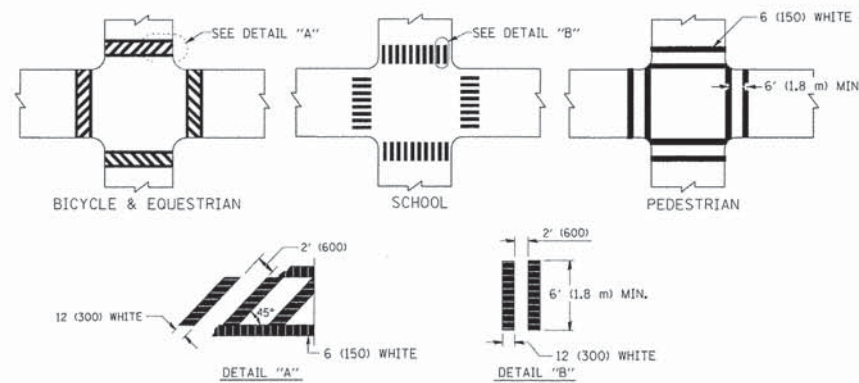
* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE
 ** WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

All dimensions are in inches (millimeters) unless otherwise shown.

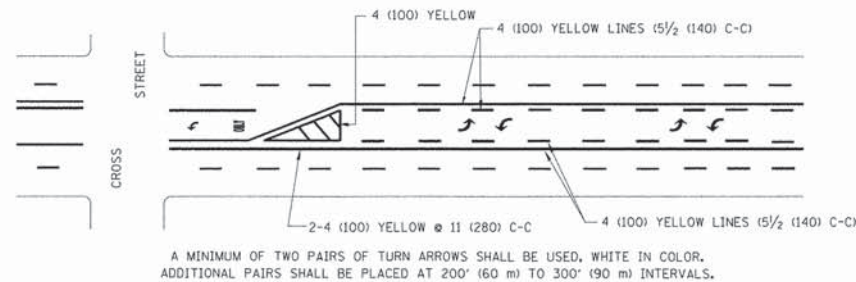
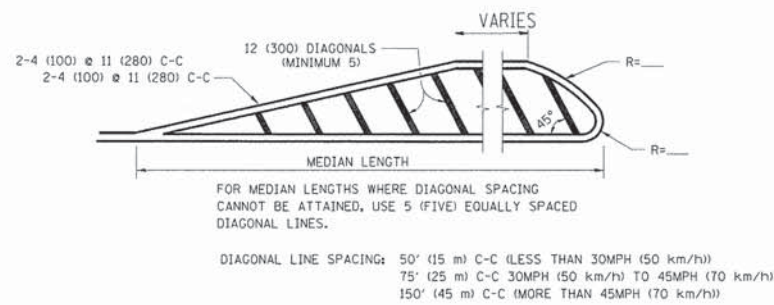
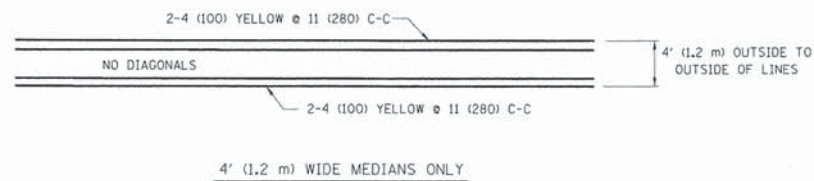
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| | | PLT SCALE = 50.000 "/td> <td>CHECKED -</td> <td>REVISED - T, RAMMACHER 01-06-00</td> <td colspan="3" style="text-align: center;">TC-11</td> <td colspan="3" style="text-align: center;">CONTRACT NO. 63764</td> | CHECKED - | | REVISED - T, RAMMACHER 01-06-00 | TC-11 | | | CONTRACT NO. 63764 | | | |
| | | PLT DATE = 9/9/2009 | DATE - | | REVISED - C, JUCIUS 09-09-09 | FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT | | | | | | |



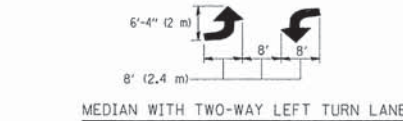
TYPICAL LANE AND EDGE LINE MARKING



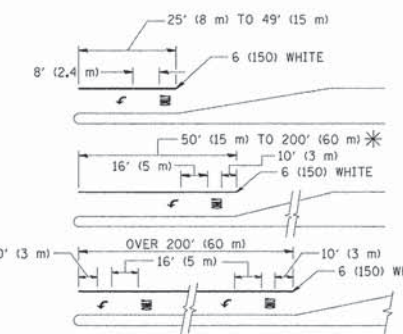
TYPICAL CROSSWALK MARKING



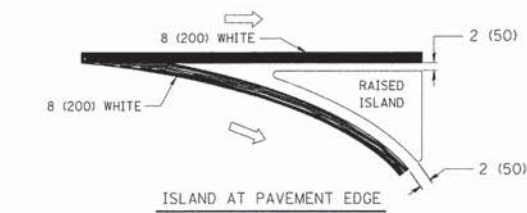
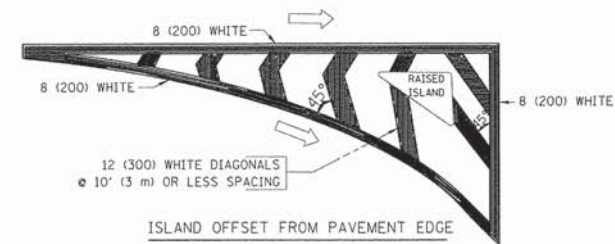
TYPICAL PAINTED MEDIAN MARKING



TYPICAL TURN LANE MARKING



TYPICAL LEFT (OR RIGHT) TURN LANE



TYPICAL ISLAND MARKING

| TYPE OF MARKING | WIDTH OF LINE | PATTERN | COLOR | SPACING / REMARKS |
|---|--|---------------------------------|---|--|
| CENTERLINE ON 2 LANE PAVEMENT | 4 (100) | SKIP-DASH | YELLOW | 10' (3 m) LINE WITH 30' (9 m) SPACE |
| CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT | 2 @ 4 (100) | SOLID | YELLOW | 11 (280) C-C |
| NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS | 4 (100) 2 @ 4 (100) | SOLID SOLID | YELLOW YELLOW | 5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN |
| LANE LINES | 4 (100) 5 (125) ON FREEWAYS | SKIP-DASH SKIP-DASH | WHITE WHITE | 10' (3 m) LINE WITH 30' (9 m) SPACE |
| DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS) | SAME AS LINE BEING EXTENDED | SKIP-DASH | SAME AS LINE BEING EXTENDED | 2' (600) LINE WITH 6' (1.8 m) SPACE |
| EDGE LINES | 4 (100) | SOLID | YELLOW-LEFT WHITE-RIGHT | OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB |
| TURN LANE MARKINGS | 6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m)) | SOLID | WHITE | SEE TYPICAL TURN LANE MARKING DETAIL |
| TWO WAY LEFT TURN MARKING | 2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW | SKIP-DASH AND SOLID IN PAIRS | YELLOW WHITE | 10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL |
| CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL) | 2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90° | SOLID SOLID SOLID | WHITE WHITE WHITE | NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS. |
| STOP LINES | 24 (600) | SOLID | WHITE | PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE |
| PAINTED MEDIANS | 2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS | SOLID | YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC | 11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING. |
| GORE MARKING AND CHANNELIZING LINES | 8 (200) WITH 12 (300) DIAGONALS @ 45° | SOLID | WHITE | DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h)) |
| RAILROAD CROSSING | 24 (600) TRANSVERSE LINES; "RR" 15' (4.5 m) LETTERS; 16 (400) LINE FOR "X" | SOLID | WHITE | SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²) |
| SHOULDER DIAGONALS | 12 (300) @ 45° | SOLID | WHITE - RIGHT YELLOW - LEFT | 50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h)) |

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

All dimensions are in inches (millimeters) unless otherwise shown.

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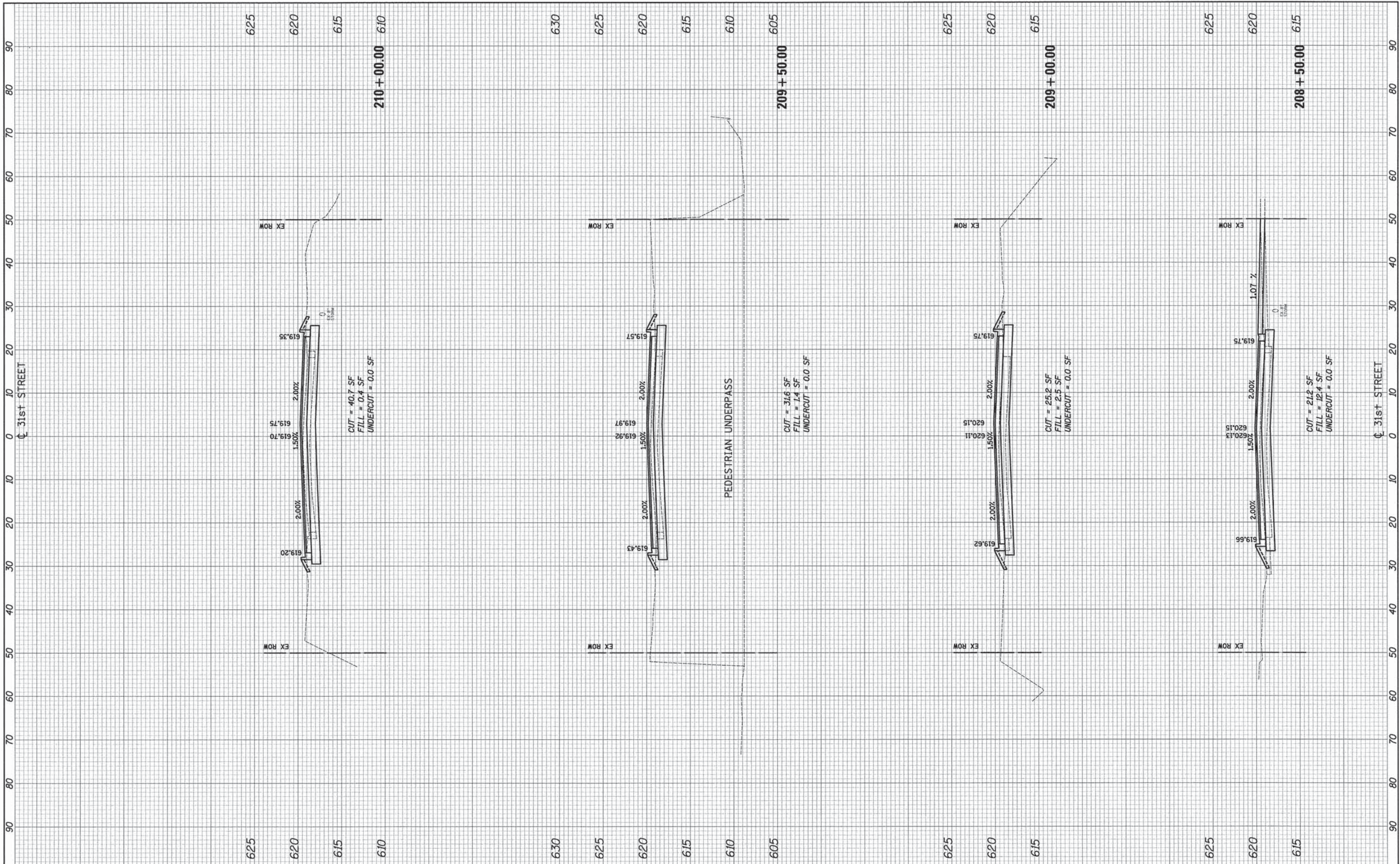
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

| | | | |
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| DISTRICT ONE | | | |
| TYPICAL PAVEMENT MARKINGS | | | |
| SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA. |

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|---|----------------|--------------------|--------------|-----------|
| F.A.U. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 3784 | 12-F3000-23-PK | MCHENRY | 131 | 118 |
| TC-13 | | CONTRACT NO. 63764 | | |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT | | | | |

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| FINAL SURVEY NO. | SURVEYED | BY | DATE |
| NOTE BOOK NO. | PLOTTED | | |
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

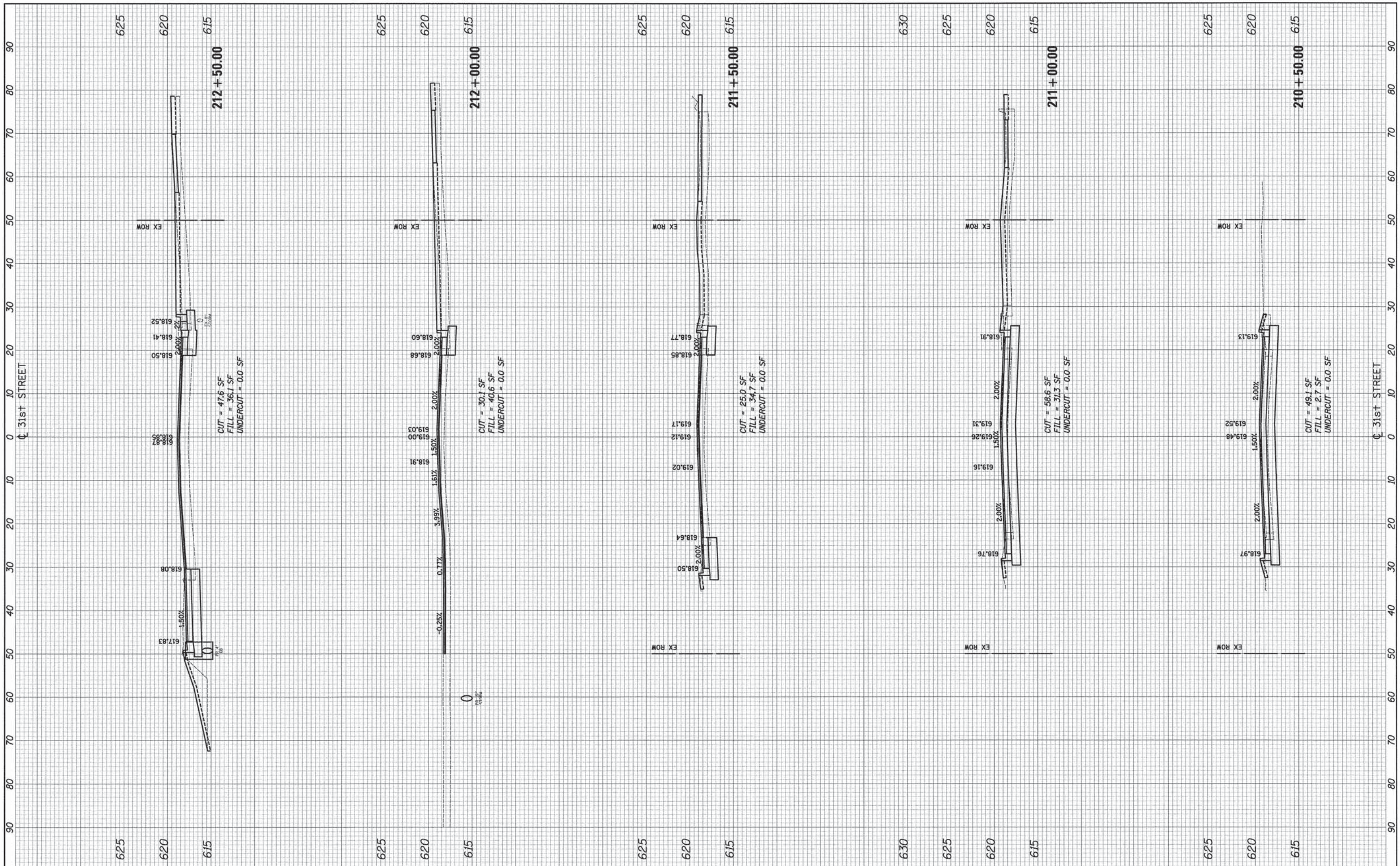
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| F.A.U. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 3784 | 12-F3000-23-PK | COOK | 131 | 120 |
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| ILLINOIS FED. AID PROJECT | | | | |

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| NOTE BOOK NO. | BY |
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

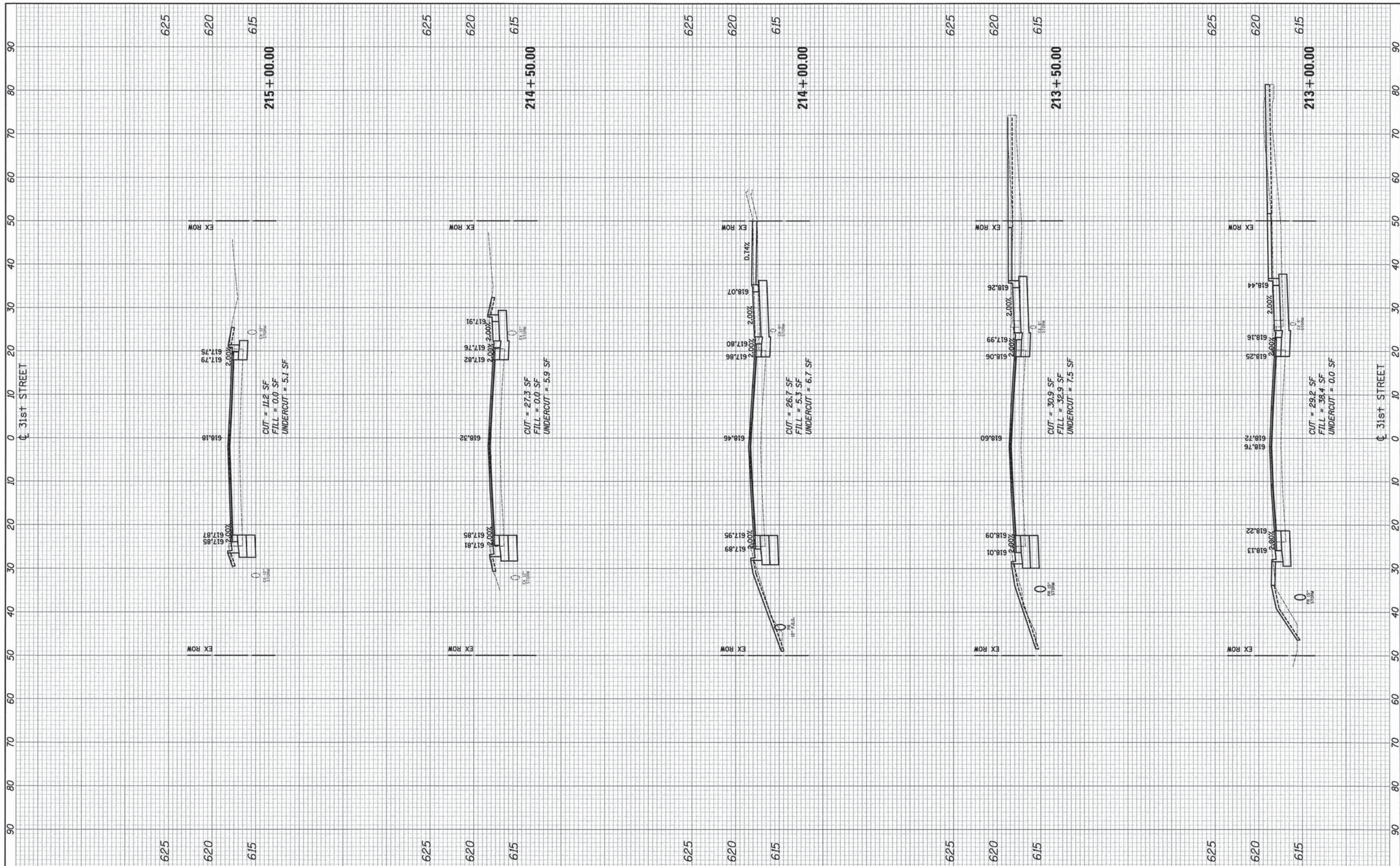
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| F.A.U. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 3784 | 12-F3000-23-PK | COOK | 131 | 121 |
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| ILLINOIS FED. AID PROJECT | | | | |

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| FINAL | DESIGNED | DATE |
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

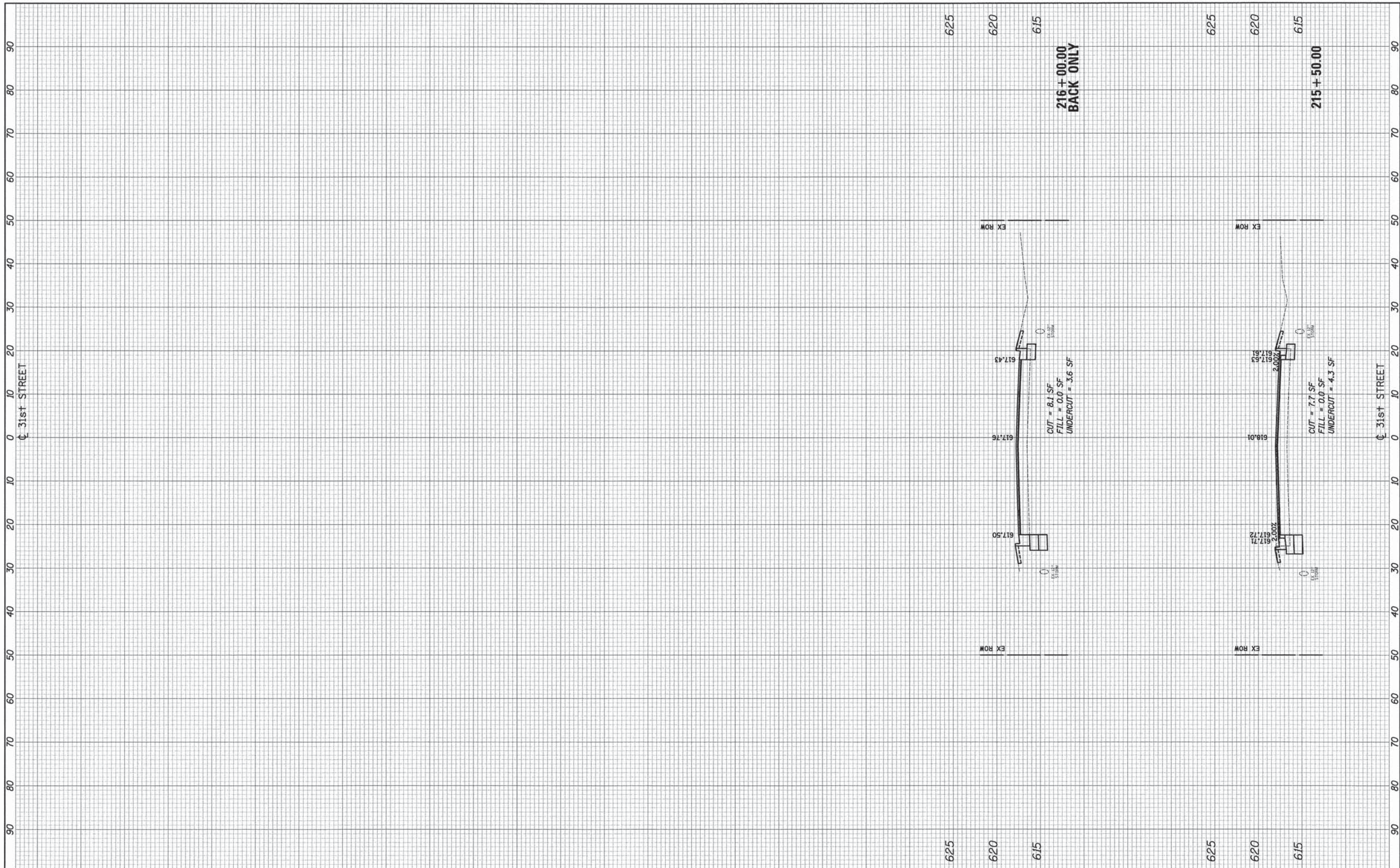
CROSS SECTIONS

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| F.A.U. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

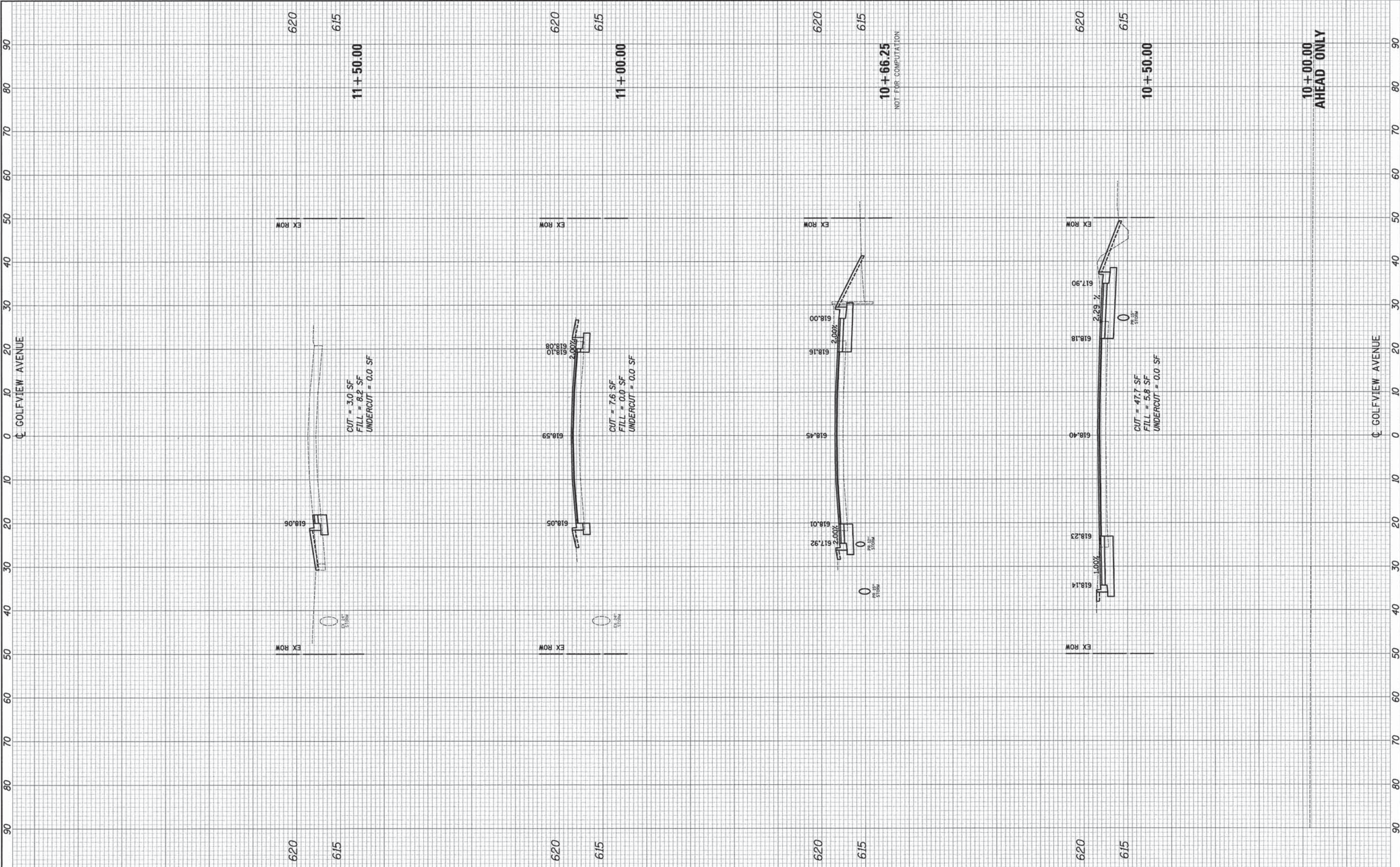
CROSS SECTIONS

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| F.A.U. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|-----------|
| 3784 | 12-F3000-23-PK | C00K | 131 | 123 |
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| ILLINOIS FED. AID PROJECT | | | | |

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| FINAL SURVEY | SURVEYED | BY | DATE |
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| ORIGINAL SURVEY | SURVEYED | BY | DATE |
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

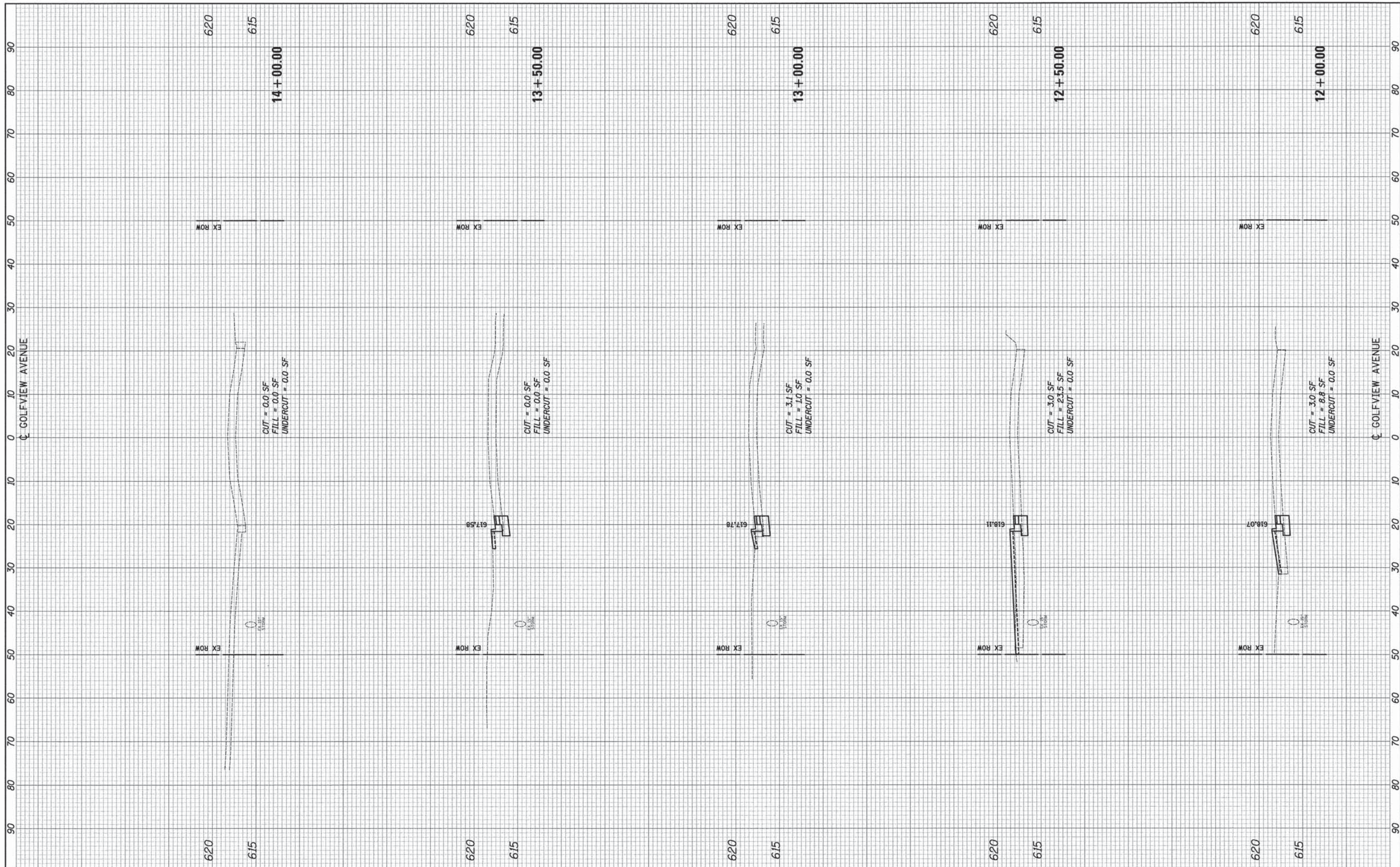
CROSS SECTIONS

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| F.A.U. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 3784 | 12-F3000-23-PK | COOK | 131 | 124 |
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| ILLINOIS FED. AID PROJECT | | | | |

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 DRAWN - DTE
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

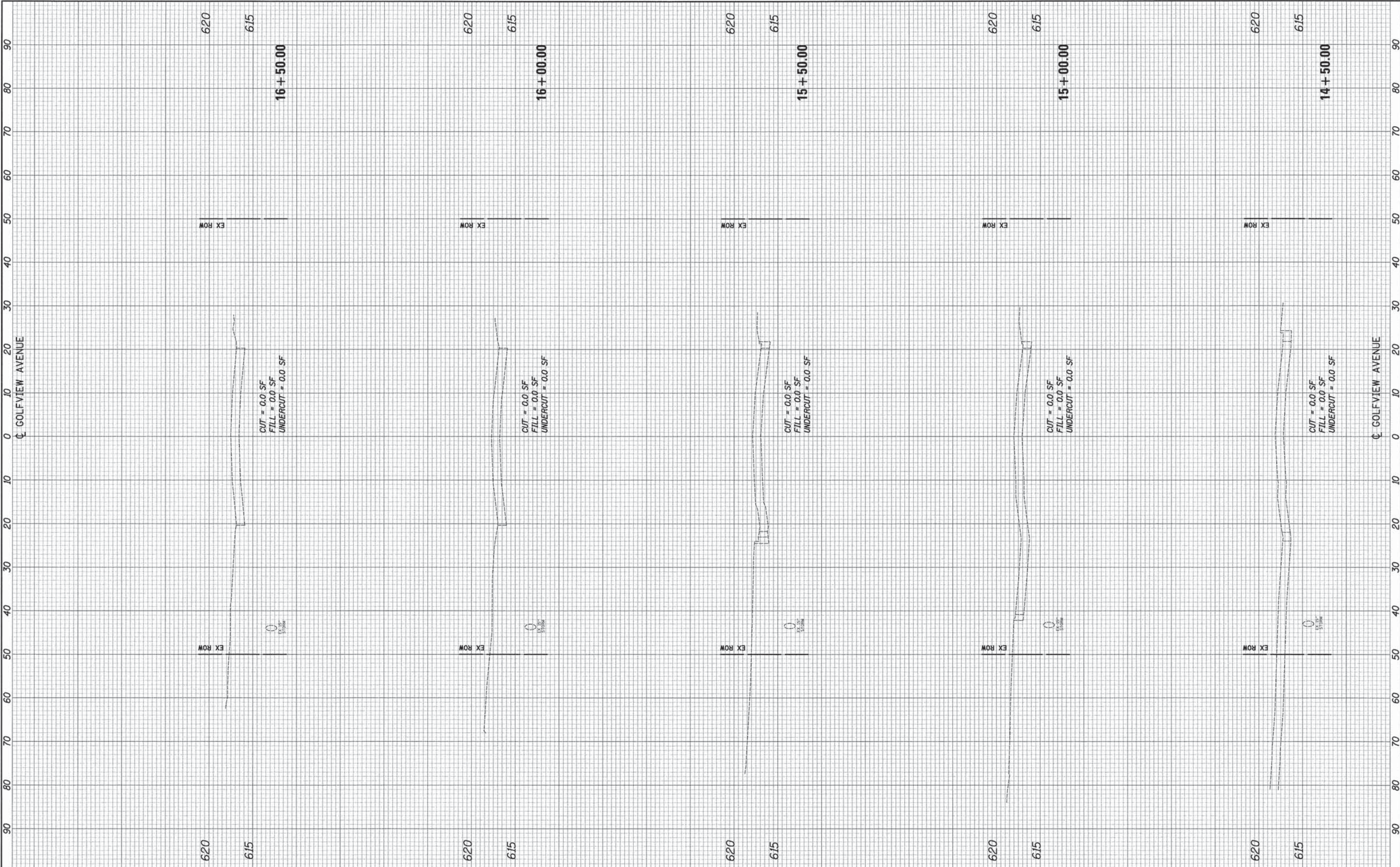
CROSS SECTIONS

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| F.A.U. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

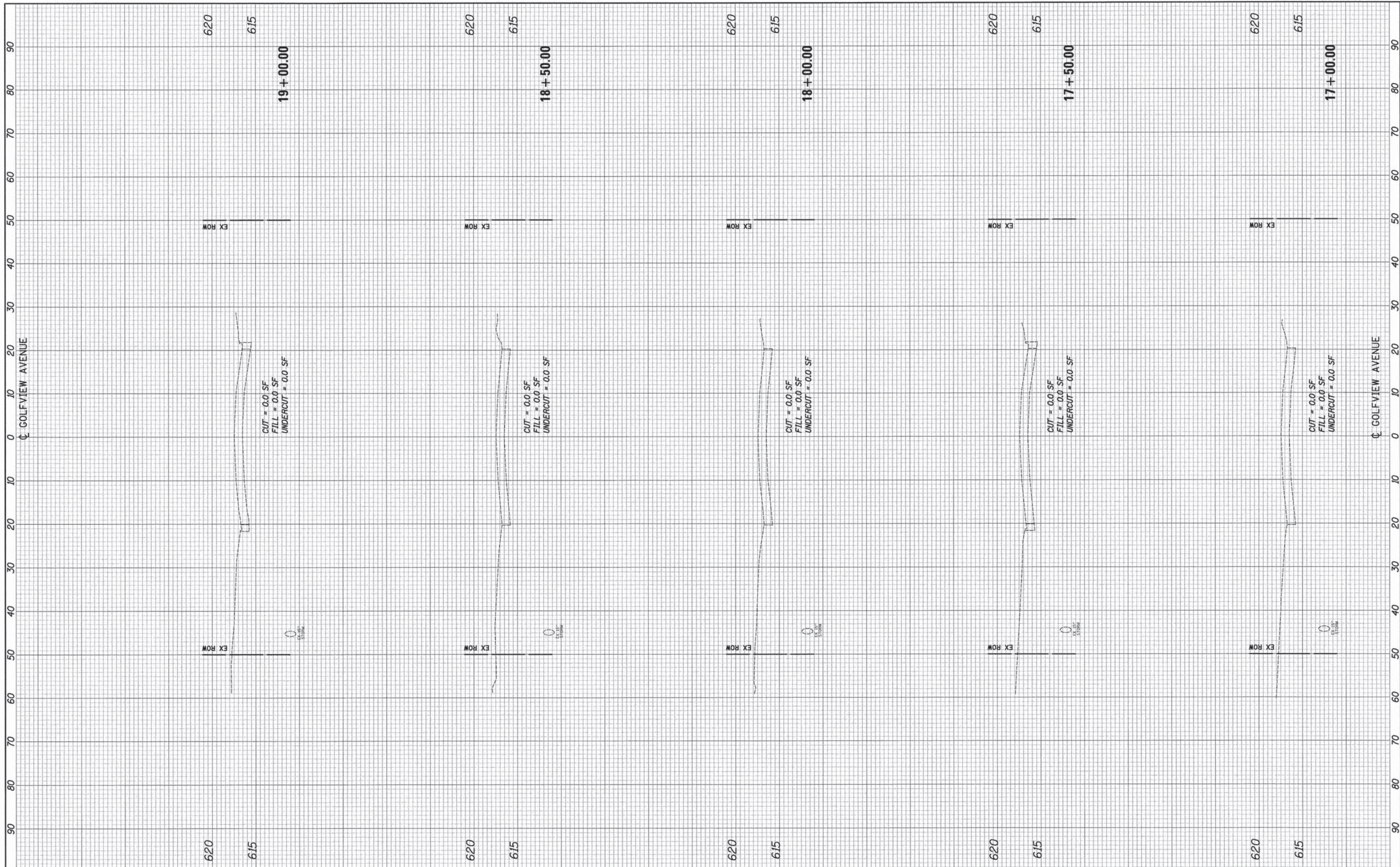
CROSS SECTIONS

SCALE: 10'H: 5'V SHEET NO. 8 OF 13 SHEETS STA. 14+50.00 TO STA. 16+50.00

| | | | | |
|---------------------------|----------------|--------|--------------|-----------|
| F.A.U. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 3784 | 12-F3000-23-PK | COOK | 131 | 126 |
| CONTRACT NO. 63764 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

| | | |
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| FINISHED SURVEY | BY | DATE |
| NO. _____ | | |
| NOTE BOOK | | |
| NO. _____ | | |
| TEMPLATES | | |
| AREAS CHECKED | | |

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| ORIGINAL SURVEY | BY | DATE |
| NO. _____ | | |
| NOTE BOOK | | |
| NO. _____ | | |
| TEMPLATES | | |
| AREAS CHECKED | | |



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 CHECKED - GAB
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

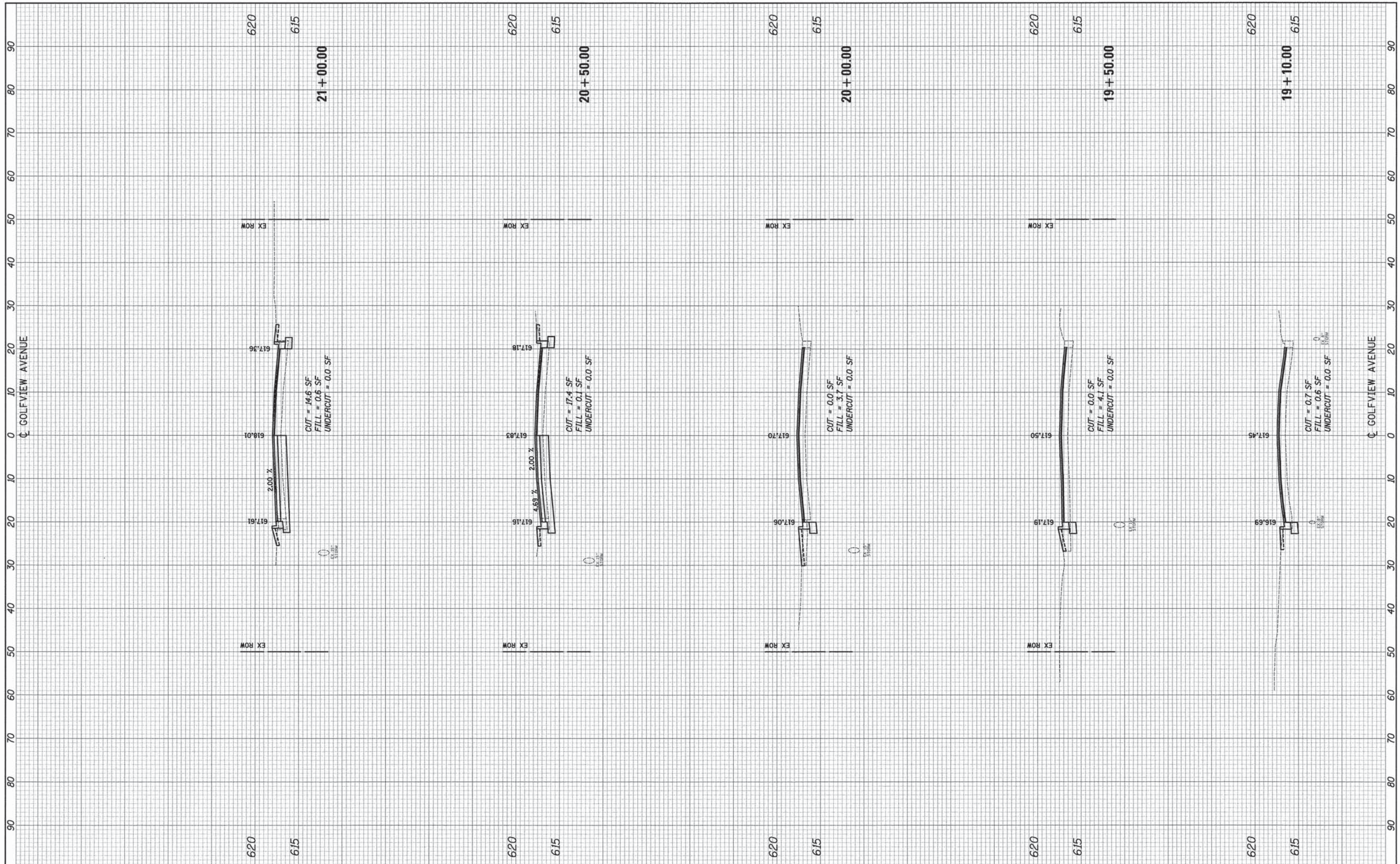
CROSS SECTIONS

SCALE: 10'H= 5'V SHEET NO. 9 OF 13 SHEETS STA. 17+00.00 TO STA. 19+00.00

| F.A.U. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-----------------------------|----------------|--------|--------------|-----------|
| 3784 | 12-F3000-23-PK | COOK | 131 | 127 |
| CONTRACT NO. 63764 | | | | |
| [ILLINOIS] FED. AID PROJECT | | | | |

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 CHECKED - GAB
 DATE - 05/13/2013

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

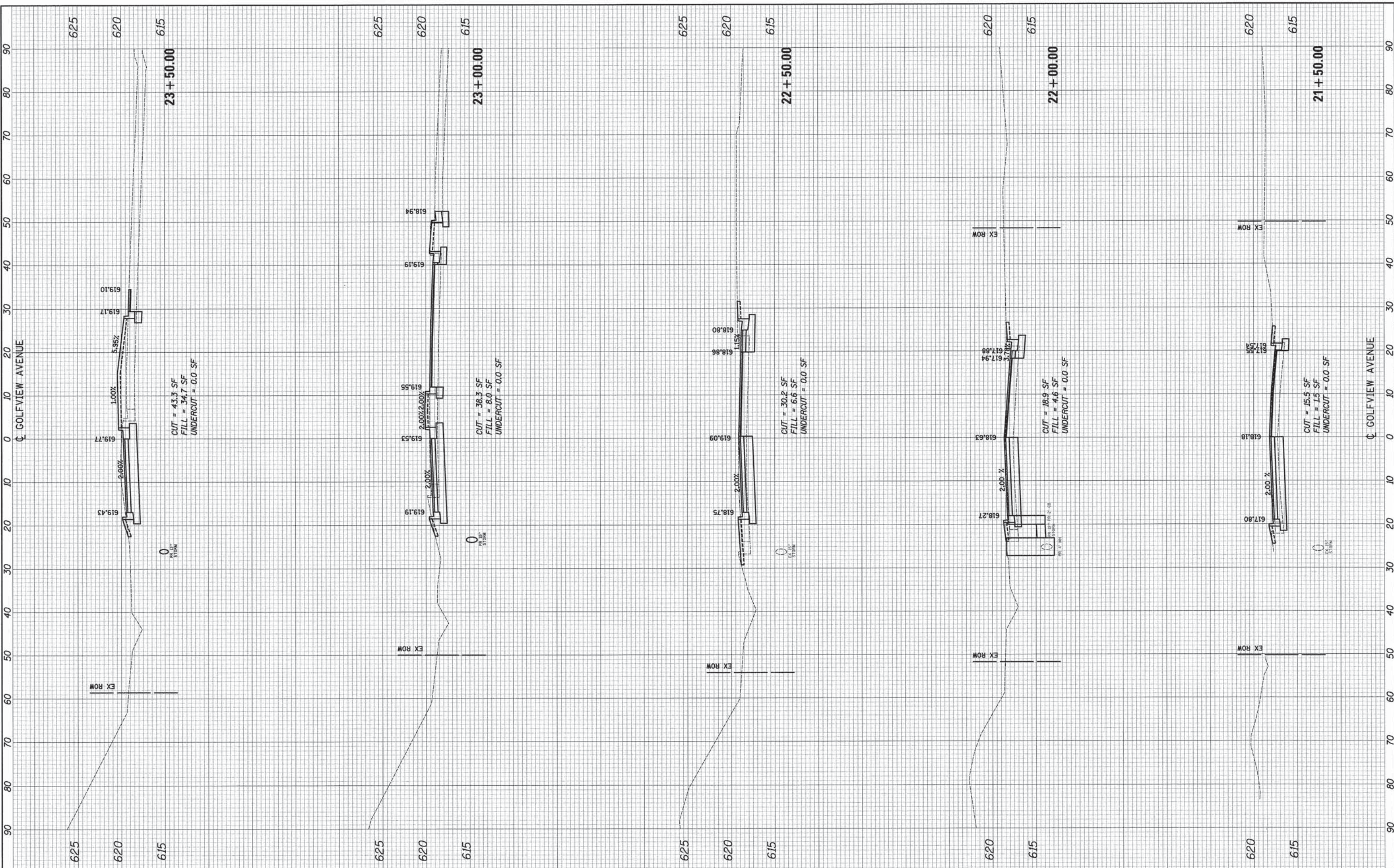
CROSS SECTIONS

SCALE: 10'H: 5'V SHEET NO. 10 OF 13 SHEETS STA. 19+10.00 TO STA. 21+00.00

| F.A.U. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|-----------|
| 3784 | 12-F3000-23-PK | COOK | 131 | 128 |
| CONTRACT NO. 63764 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

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| FINAL SURVEY | BY | DATE |
| SURVEYED | | |
| PLOTTED | | |
| TEMPLATE | | |
| NOTE BOOK | | |
| AREAS CHECKED | | |
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| ORIGINAL SURVEY | BY | DATE |
| SURVEYED | | |
| TEMPLATE | | |
| NOTE BOOK | | |
| AREAS CHECKED | | |
| NO. | | |



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| | | CHECKED - GAB | REVISED - |
| | | DATE - 05/13/2013 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

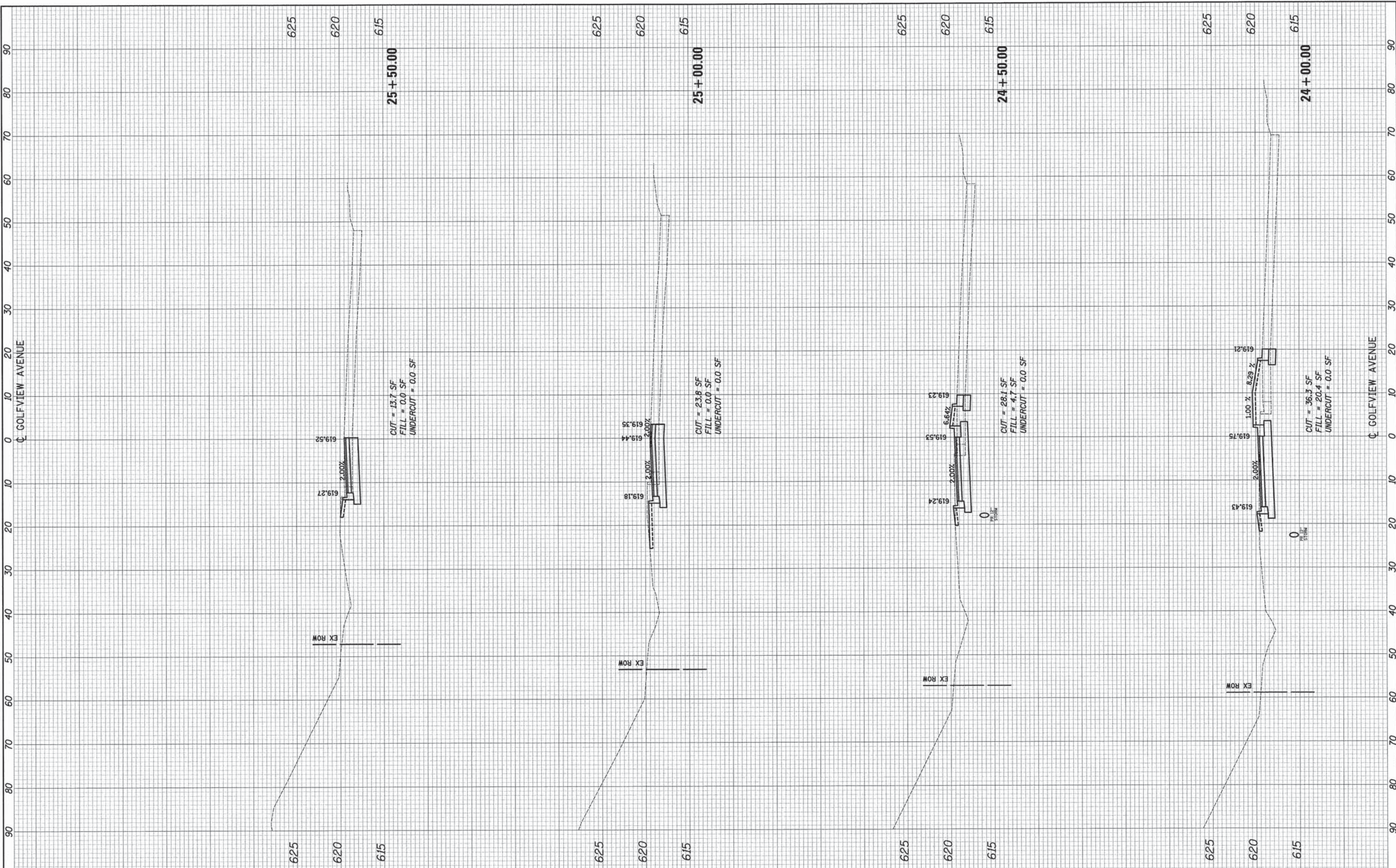
CROSS SECTIONS

SCALE: 10'H: 5'V SHEET NO. 11 OF 13 SHEETS STA. 21+50.00 TO STA. 23+50.00

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|-----------------------------|----------------|--------|--------------|--------------------|
| F.A.U. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 3784 | 12-F3000-23-PK | COOK | 131 | 129 |
| | | | | CONTRACT NO. 63764 |
| (ILLINOIS) FED. AID PROJECT | | | | |

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| FINAL SURVEY NO. | SURVEYED BY | DATE |
| NOTE BOOK NO. | TEMPERATURE | |
| AREAS CHECKED | | |

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| ORIGINAL SURVEY NO. | SURVEYED BY | DATE |
| NOTE BOOK NO. | TEMPERATURE | |
| AREAS CHECKED | | |



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 CHECKED - GAB
 DATE - 05/13/2013

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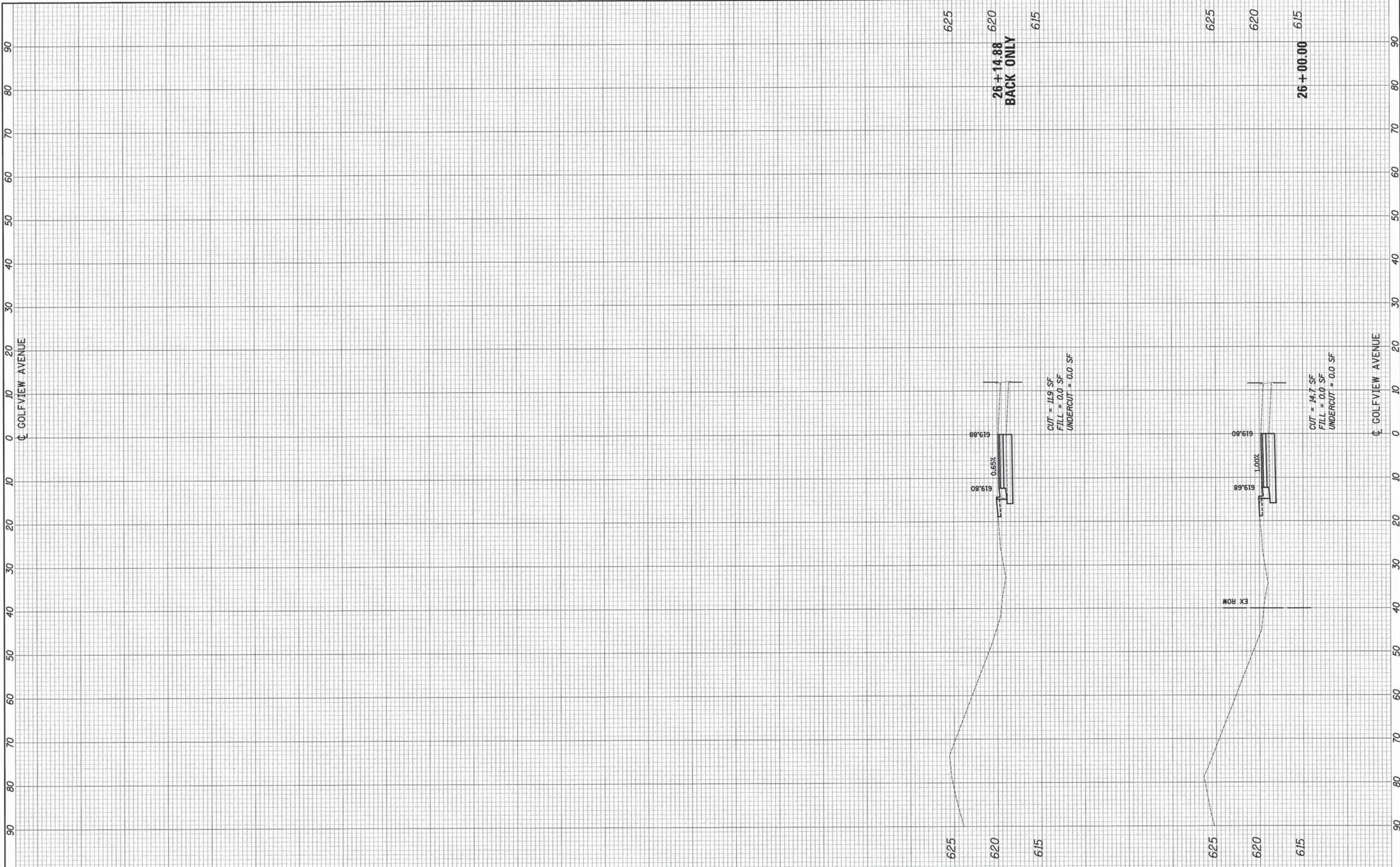
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS
 SCALE: 10'H: 5'V SHEET NO. 12 OF 13 SHEETS STA. 24+00.00 TO STA. 25+50.00

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|---------------------------|------------------------|-------------|------------------|---------------|
| F.A.U. RTE. 3784 | SECTION 12-F3000-23-PK | COUNTY COOK | TOTAL SHEETS 131 | SHEET NO. 130 |
| CONTRACT NO. 63764 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

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| FINAL SURVEY | SURVEYED | BY | DATE |
| NOTE BOOK | PLOTTED | | |
| NO. | AREA | | |
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| ORIGINAL SURVEY | SURVEYED | BY | DATE |
| NOTE BOOK | PLOTTED | | |
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| | | CHECKED - GAB | REVISED - |
| | | DATE - 05/13/2013 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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|-----------------------|---------------------------|---------------|------------------|
| CROSS SECTIONS | | | |
| SCALE: 10'H: 5'V | SHEET NO. 13 OF 13 SHEETS | STA. 26+00.00 | TO STA. 26+50.00 |

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|---------------------------|---------------------------|----------------|---------------------|------------------|
| F.A.U. RTE. 3784 | SECTION 12-F3000-23-PK | COUNTY COOK | TOTAL SHEETS 131 | SHEET NO. 131 |
| CONTRACT NO. 63764 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |