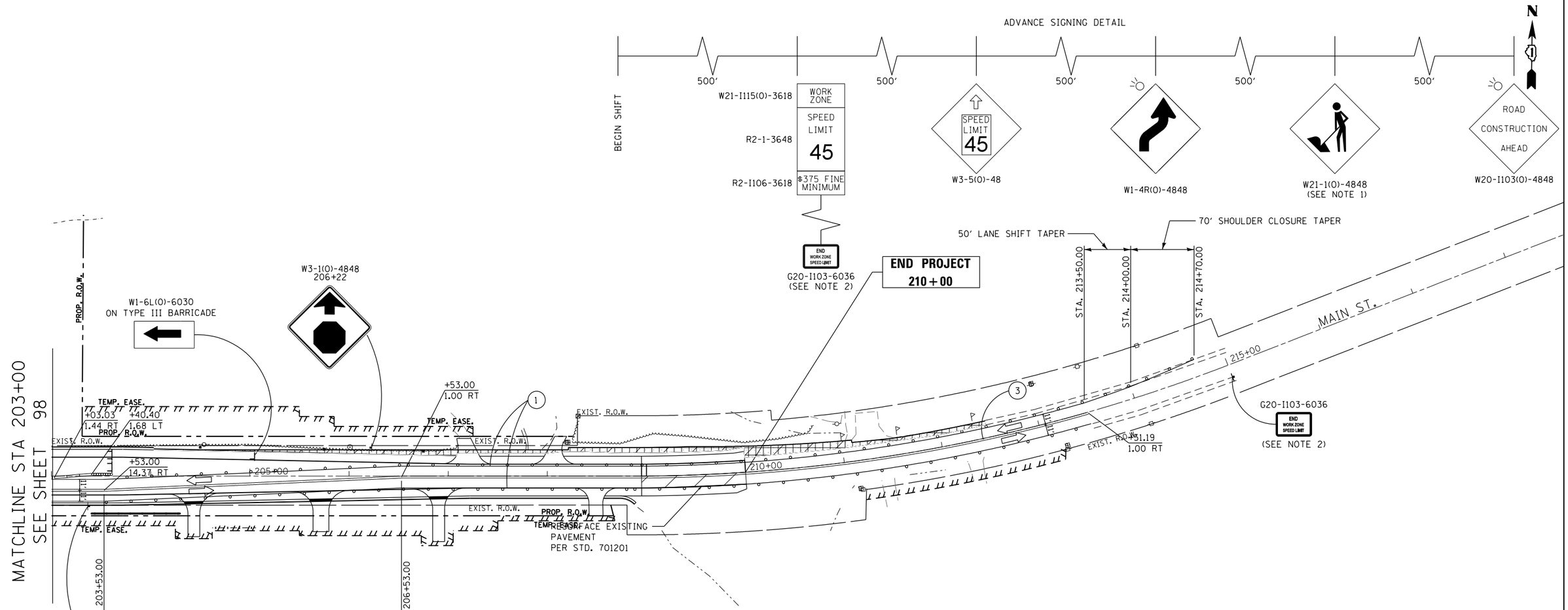


PAVEMENT MARKING LEGEND

①	PAVEMENT MARKING TAPE, TYPE IV - LINE 4″, WHITE SOLID LINE	(70300904)
②	PAVEMENT MARKING TAPE, TYPE IV - LINE 4″, YELLOW SOLID LINE	(70300904)
③	PAVEMENT MARKING TAPE, TYPE IV - LINE 4″, DOUBLE YELLOW SOLID LINE	(70300904)
④	PAVEMENT MARKING TAPE, TYPE IV - LINE 24″, WHITE SOLID LINE	(70300924)
⑤	PAVEMENT MARKING TAPE, TYPE IV - LINE 4″, YELLOW 2′ LINE - 6′ SPACE	(70300904)
⑪	TEMPORARY EPOXY PAVEMENT MARKING - LINE 4″, WHITE SOLID LINE	(X7035104)
⑫	TEMPORARY EPOXY PAVEMENT MARKING - LINE 4″, YELLOW SOLID LINE	(X7035104)
⑬	TEMPORARY EPOXY PAVEMENT MARKING - LINE 4″, DOUBLE YELLOW SOLID LINE	(X7035104)
⑭	TEMPORARY EPOXY PAVEMENT MARKING - LINE 24″, WHITE SOLID LINE	(X7035124)
⑮	TEMPORARY EPOXY PAVEMENT MARKING - LINE 4″, YELLOW 2′ LINE - 6′ SPACE	(X7035104)

NOTES:

1. REMOVE W21-1 WHEN WORKERS ARE NOT PRESENT FOR OVER 1 HOUR.
2. END WORK ZONE SPEED LIMIT, SIGN R2-12-2436 IS TO BE ALLIGNED WITH WORK ZONE SPEED LIMIT SIGN ON THE OPPOSITE SIDE.

TAPER L MIN = (WS) (1/2 FOR SHIFTING TAPER)
W = 14.38 FT
S = 45 MPH
TAPER LENGTH = 300 LFT
BEGIN TAPER: STA 203+53
END TAPER: STA 206+53

LEGEND

- TEMPORARY PAVEMENT
- WORK ZONE
- TEMPORARY PAVEMENT REMOVAL
- TRAFFIC DIRECTION
- TYPE III BARRICADE
- VERTICAL PANEL W/ STEADY BURN LIGHT
- DRUMS W/ STEADY BURN LIGHT
- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATOR
- TEMPORARY TRAFFIC CONTROL SIGN
- GEOTEXTILE RETAINING WALL
- TEMPORARY SHEET PILING

GRAPHIC SCALE

50′ 0 50′ 100′ 200′

PLAN — DATE | BY | SURVEYED | PLOTTED | ALIGNMENT CHECKED | RT. OF WAY CHECKED | CADD FILE NAME | NOTE BOOK | NO.

PROFILE — DATE | BY | SURVEYED | PLOTTED | CROSS SECTIONS CHECKED | BAR. NOTED | STRUCTURE NOTATNS CHKD | NOTE BOOK | NO.

FILE NAME = P:\2015\0558 IDOT Dist IL Route 47 at Main S of Elburn (PTB 171-041)\04-CADD\01 CADD\Sheets\D160721-sht-MOT Stage06 Sht105.dgn

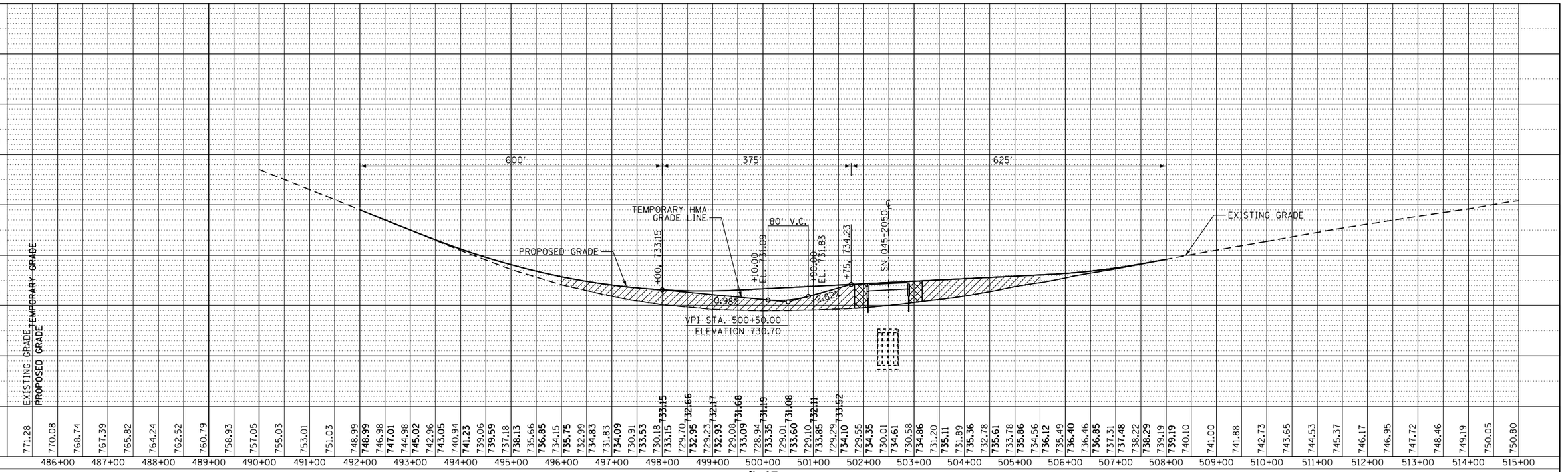
USER NAME = mlopez2	DESIGNED - LAB	REVISED -	
FILE NAME =	DRAWN - YWA	REVISED -	
PLOT SCALE = 100.0000 ′ / in.	CHECKED - EJL	REVISED -	
PLOT DATE = 1/28/2019	DATE - 1/28/19	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL RTE 47 AT MAIN STREET
MAINTENANCE OF TRAFFIC – STAGE 6

SCALE: 1″ = 50′ | SHEET NO. 30 OF 30 SHEETS | STA. 203+00 TO STA. 215+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	107N-4	KANE	288	101
		CONTRACT NO. 60T21		
	ILLINOIS FED. AID PROJECT			

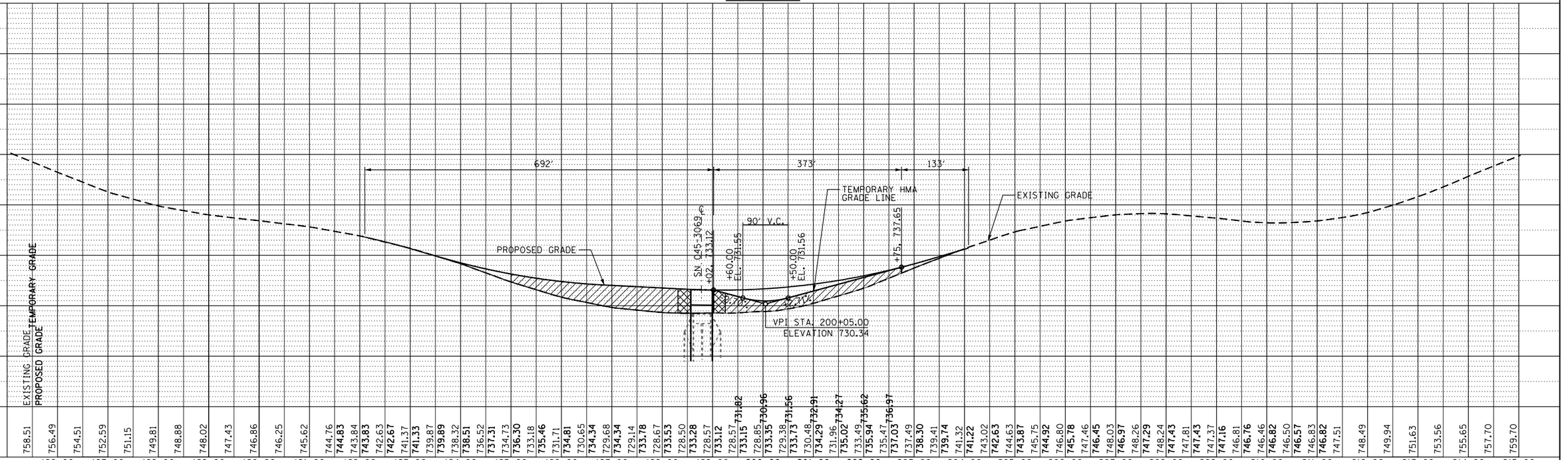


IL-47

MAIN STREET

LEGEND

- TEMPORARY SOIL RETENTION SYSTEM/ SHEET PILING
- GEOTEXTILE WALL



PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
S.M. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.
BY
DATE

FILE NAME = P:\2015\0558 IDOT Dist 1\ Route 47 at Main S of Elburn (PTB 177-041)\04-CADD\01 CADD_Sheets\D1801121-sht.TSP5.dgn

MILHOUSE

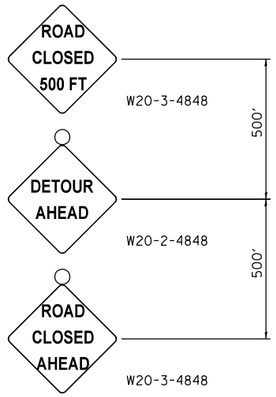
USER NAME = mlopez2	DESIGNED - LAB	REVISED -	
FILE NAME =	DRAWN - YWA	REVISED -	
PLOT SCALE = 200.0000 ' / in.	CHECKED - EJL	REVISED -	
PLOT DATE = 1/28/2019	DATE - 1/28/19	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

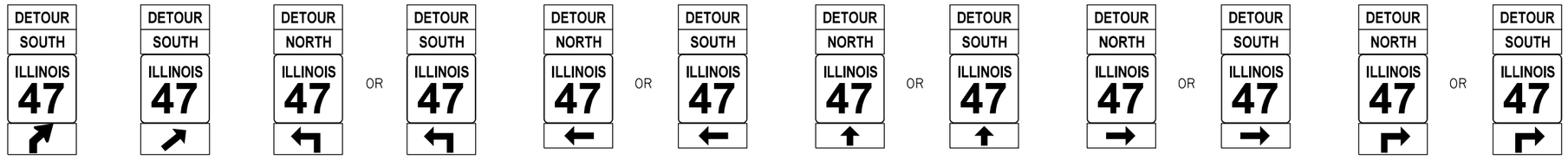
MAINTENANCE OF TRAFFIC PROFILES

SCALE: 1" = 100' | SHEET NO. 1 OF 1 SHEETS | STA. N/A | TO STA. N/A

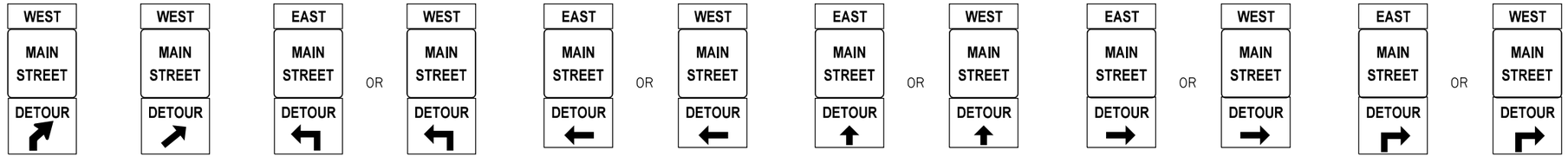
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	107N-4	KANE	288	102
		CONTRACT NO. 60T21		
		ILLINOIS FED. AID PROJECT		



A

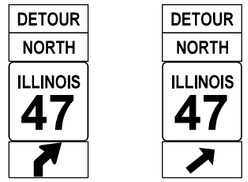


B1 B2 C1 C2 D1 D2 E1 E2 F1 F2 G1 G2



A1 A2 H1 H2 J1 J2 K1 K2 L1 L2 M1 M2

NOTE 1: ITEMS B, I, & O ARE NOT USED
NOTE 2: ITEMS Q, R, S, T, U, V, & W ARE REQUIRED TO BE POSTED ON TYPE 3 BARRICADES PER TC-21



N1 N2

W20-2-4848
N

M4-8A-2418
P

R11-4-6030
R

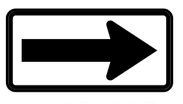
R11-3a-6030
S

R11-3a-6030
T

R11-3a-6030
U

V

W



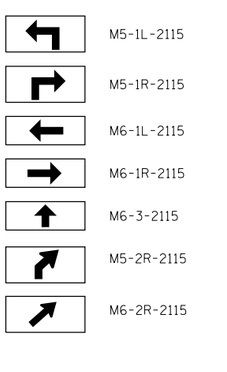
W1-6R-6030
X

R11-3a-6030
ZL

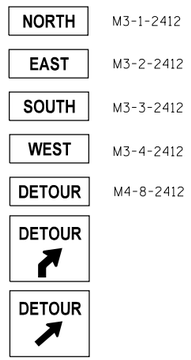
R11-3a-6030
ZR

LEGEND

ARROW SIGNS



CARDINAL DIRECTION & DETOUR SIGNS



ROUTE MARKERS

M1-50-2424

5" BLACK LETTERS
REFLECTIVE ORANGE BACKGROUND
(ALSO FOR ADVANCE INFORMATION SIGNS)

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FILE NAME =	DRAWN - YWA	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED - EJL	REVISED -	
PLOT DATE = 1/28/2019	DATE - 1/28/19	REVISED -	

IL 47
DETOUR STAGE 3

SCALE: N.T.S. | SHEET NO. 1 OF 3 SHEETS | STA. | TO STA.

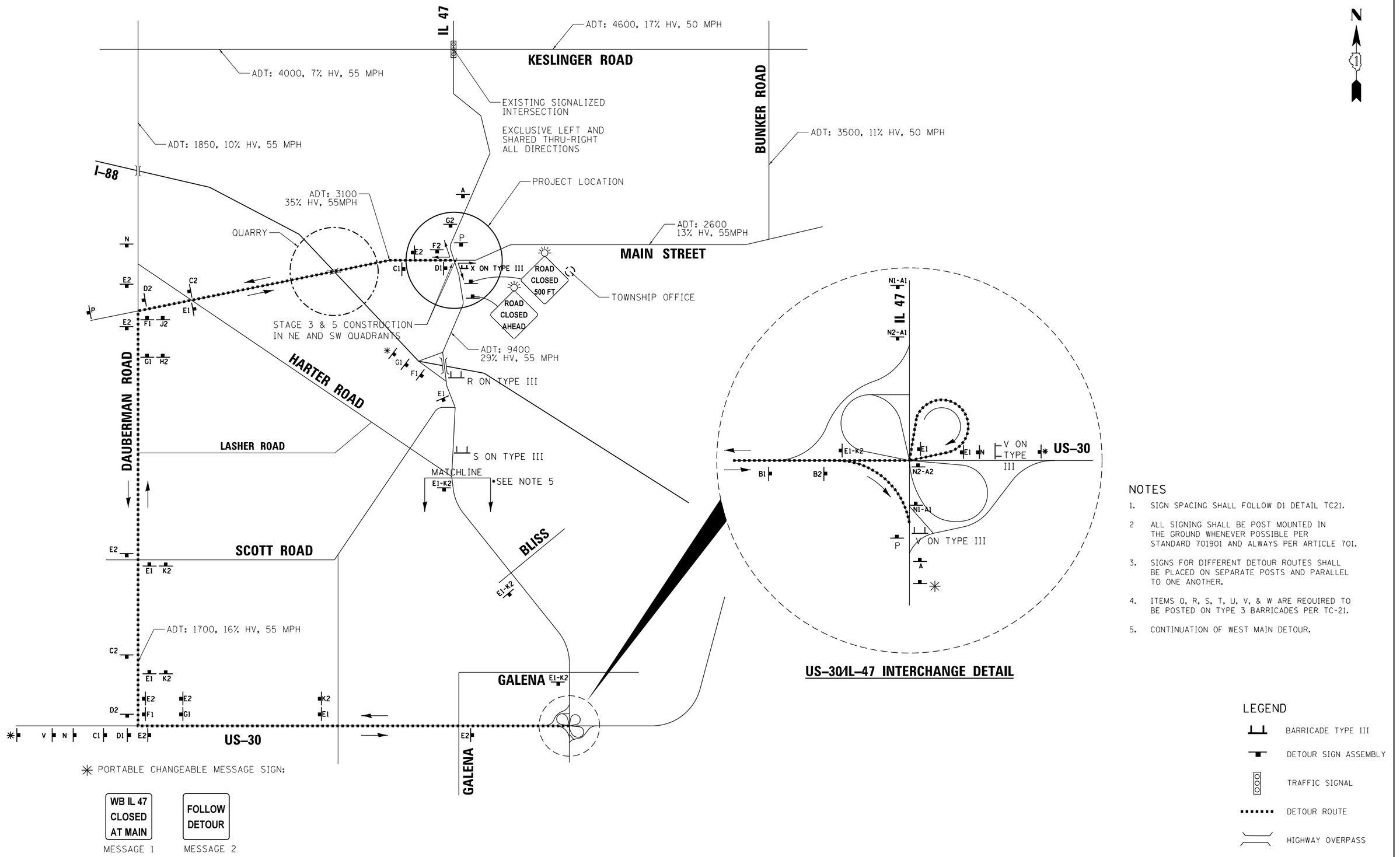
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	107N-4	KANE	288	103

CONTRACT NO. 60T21
ILLINOIS FED. AID PROJECT

PLAN: SURVEYED, PLOTTED, ALIGNMENT CHECKED, RT. OF WAY CHECKED, CADD FILE NAME, NOTE BOOK, NO.
PROFILE: SURVEYED, PLOTTED, GRADES CHECKED, BM. NOTED, STRUCTURE NOTATNS CHKD
BY, DATE

FILE NAME = P:\2015\0558 IDOT Dist IL Route 47 at Main S of Elburn IPTB 177-04\Y04-CADD\01 CADD\Sheets\D160T21-sht-MDT Detour Sign Legend.dgn

D160T21-sht-MDT Detour Sign Legend.dgn



NOTES

1. SIGN SPACING SHALL FOLLOW D1 DETAIL TC21.
2. ALL SIGNING SHALL BE POST MOUNTED IN THE GROUND WHENEVER POSSIBLE PER STANDARD 701901 AND ALWAYS PER ARTICLE 701.
3. SIGNS FOR DIFFERENT DETOUR ROUTES SHALL BE PLACED ON SEPARATE POSTS AND PARALLEL TO ONE ANOTHER.
4. ITEMS O, R, S, T, U, V, & W ARE REQUIRED TO BE POSTED ON TYPE 3 BARRICADES PER TC-21.
5. CONTINUATION OF WEST MAIN DETOUR.

LEGEND

- BARRICADE TYPE III
- DETOUR SIGN ASSEMBLY
- TRAFFIC SIGNAL
- DETOUR ROUTE
- HIGHWAY OVERPASS

PLAN — SURVEYED, PLOTTED, DESIGNS CHECKED, R/T. OF WAY CHECKED, CADD FILE NAME, NOTE BOOK, NO.
PROFILE — SURVEYED, PLOTTED, DESIGNS CHECKED, BM. NOTED, STRUCTURE NOTATNS CHKD, NOTE BOOK, NO.
BY, DATE

FILE NAME = P:\2015\0558 IDOT Dist IL Route 47 at Main S of Elburn (PTB 177-041)\04-CADD\01 CADD Sheets\D160T21-sht-MOT Detour IL 47.dgn

USER NAME = mlopez2	DESIGNED - WC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
FILE NAME =	DRAWN - RBB	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED - RBB	REVISED -	
PLOT DATE = 1/28/2019	DATE - 1/28/19	REVISED -	

IL 47
DETOUR STAGES 3 & 5

SCALE: N.T.S. | SHEET NO. 2 OF 3 SHEETS | STA. 187+91.39 TO STA. 213+42.88

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	107N-4	KANE	288	104
		CONTRACT NO. 60T21		
	ILLINOIS FED. AID PROJECT			

D160T21-sht-MOT Detour IL 47.dgn

DAUBERMAN ROAD

ADT: 1850, 10% HV, 55 MPH

ADT: 4000, 7% HV, 55 MPH

IL 47

KESLINGER ROAD

ADT: 4600, 17% HV, 50 MPH

EXISTING SIGNALIZED INTERSECTION

EXCLUSIVE LEFT AND SHARED THRU-RIGHT ALL DIRECTIONS

BUNKER ROAD

ADT: 3500, 11% HV, 50 MPH

I-88

ROAD CLOSED 500 FT

ROAD CLOSED 500 FT

ROAD CLOSED AHEAD

ROAD CLOSED AHEAD

QUARRY

X ON TYPE III

X ON TYPE III

R ON TYPE III

T & ZR ON TYPE III

MAIN STREET

TOWNSHIP OFFICE

PROJECT LOCATION

R ON TYPE III

T & ZL ON TYPE III

ADT: 2050, 6% HV, 55 MPH

HARTER ROAD

I-88

STAGE 3 & 5 CONSTRUCTION IN NE AND SW QUADRANTS

MATCHLINE

*SEE NOTE 4

✳ PORTABLE CHANGEABLE MASSAGE SIGN:

EB MAIN CLOSED AT IL 47	FOLLOW DETOUR
MESSAGE 1	MESSAGE 2

✳✳ PORTABLE CHANGEABLE MASSAGE SIGN:

WB MAIN CLOSED AT IL 47	FOLLOW DETOUR
MESSAGE 1	MESSAGE 2

NOTES

1. SIGN SPACING SHALL FOLLOW D1 DETAIL TC21.
2. ALL SIGNING SHALL BE POST MOUNTED IN THE GROUND WHENEVER POSSIBLE PER STANDARD 701901 AND ALWAYS PER ARTICLE 701.
3. SIGNS FOR DIFFERENT DETOUR ROUTES SHALL BE PLACED ON SEPARATE POSTS AND PARALLEL TO ONE ANOTHER.
4. SEE IL RTE 47 DETOUR FOR ADDITIONAL SIGNS.

LEGEND

- BARRICADE TYPE III
- DETOUR SIGN ASSEMBLY
- TRAFFIC SIGNAL
- DETOUR ROUTE
- HIGHWAY OVERPASS

PLAN: SURVEYED, PLOTTED, QUANTITIES CHECKED, ALIGNMENT CHECKED, RT. OF WAY CHECKED, CADD FILE NAME, NOTE BOOK, NO., BY, DATE

PROFILE: SURVEYED, PLOTTED, QUANTITIES CHECKED, B.M. NOTED, STRUCTURE NOTATNS CHKD, NOTE BOOK, NO., BY, DATE

FILE NAME = P:\2015\0558 IDOT Dist IL Route 47 at Main S of Elburn (PTB 171-041\004-CADD\DOT CADD\Sheets\D160T21-sht-MOT Detour Main.dgn

D160T21-sht-MOT Detour Main.dgn

USER NAME = mlopez2	DESIGNED - LAB	REVISED -	
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PLOT SCALE = 20.0000 ' / in.	CHECKED - EJL	REVISED -	
PLOT DATE = 1/28/2019	DATE - 1/28/19	REVISED -	

MILHOUSE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAIN STREET
DETOUR STAGES 3 & 5

SCALE: N.T.S. | SHEET NO. 3 OF 3 SHEETS | STA. N/A | TO STA. N/A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	107N-4	KANE	288	105
		CONTRACT NO. 60T21		
	ILLINOIS FED. AID PROJECT			

EROSION CONTROL GENERAL NOTES

1. THE CONSTRUCTION LIMITS WILL BE STAKED BY THE ENGINEER PRIOR TO COMMENCING

2. PERIMETER EROSION BARRIER SHALL BE ERECTED ADJACENT TO THE CONSTRUCTION LIMITS AS INDICATED ON THE EROSION AND SEDIMENT CONTROL PLAN. THE RESIDENT ENGINEER SHALL MAKE THE FINAL DETERMINATION ON THE PLACEMENT AND LOCATION OF THE PERIMETER EROSION BARRIER.

3. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON SITE. ALL CHANGES TO THE SOIL EROSION AND SEDIMENT CONTROL PLAN SHALL BE NOTED ON THE SITE PLAN.

4. SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. SOIL STABILIZATION MEASURES SHALL CONSIDER THE TIME OF THE YEAR, SITE CONDITIONS AND THE USE OF TEMPORARY AND PERMANENT MEASURES.

5. SOIL EROSION AND SEDIMENT CONTROL FEATURES SHALL BE CONSTRUCTED PRIOR TO THE COMMENCEMENT OF HYDROLOGIC DISTURBANCE OF UPLAND AREAS.

6. DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN ONE (1) CALENDAR DAYS OF THE END OF ACTIVE HYDROLOGIC DISTURBANCE, OR RE-DISTURBANCE. A QUANTITY OF TEMPORARY EROSION CONTROL SEEDING IS INCLUDED FOR AREAS THAT ARE DISTURBED BUT WILL NOT BE RESTORED WITHIN 14 DAYS.

7. ALL STORM SEWERS THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED BY AN APPROPRIATE SEDIMENT CONTROL MEASURE.

8. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED, AS APPROVED BY THE ENGINEER.

9. ALL TEMPORARY AND PERMANENT EROSION CONTROL MEASURES MUST BE MAINTAINED AND REPAIRED AS NEEDED. THE PRIME CONTRACTOR SHALL BE ULTIMATELY RESPONSIBLE FOR MAINTENANCE AND REPAIR. THE CONTRACTOR SHALL INSPECT ALL SOIL EROSION CONTROL MEASURE ON A WEEKLY BASIS OR AFTER A ONE-HALF INCH RAINFALL AND REPLACE, REPAIR OR CLEAN THEM ON A TIMELY BASIS. ADDITIONALLY DURING WINTER MONTHS, ALL MEASURES SHOULD BE CHECKED AFTER EACH SIGNIFICANT SNOW MELT. ALL OFF SITE BORROW, WASTE AND USE AREAS ARE PART OF THE CONSTRUCTION SITE AND ARE TO BE INSPECTED AT THE SAME FREQUENCY OF ON SITE INSPECTIONS.

10. ANY SEDIMENT OR SOIL REACHING AN IMPROVED PUBLIC RIGHT-OF-WAY, STREET, ALLEY OR PARKING AREA SHALL BE REMOVED BY SCRAPING OR STREET CLEANING AS ACCUMULATIONS WARRANT AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA. ALL PRECAUTIONS SHALL BE TAKEN TO AVOID TRACKING DURING CONSTRUCTION.

11. SOIL STOCKPILES SHALL NOT BE LOCATED IN A FLOOD PRONE AREA OR A DESIGNATED BUFFER PROTECTING WATERS OF THE UNITED STATES. STOCKPILES OR SOIL AND OTHER BUILDING MATERIALS TO REMAIN IN PLACE MORE THAN THREE (3) DAYS SHALL BE FURNISHED WITH EROSION AND SEDIMENT CONTROL MEASURES (I.E. PERIMETER SILT FENCE). STOCKPILES TO REMAIN UNDISTURBED FOR MORE THAN 14 DAYS WILL RECEIVE TEMPORARY SEEDING WITHIN 7 CALENDAR DAYS.

12. IF DEWATERING SERVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION. DISCHARGES SHALL BE ROUTED THROUGH AN EFFECTIVE SEDIMENT CONTROL MEASURE (E.G. SEDIMENT TRAP, SEDIMENT BASIN, SILT FILTER BAG (SPECIAL)) OR OTHER APPROPRIATE MEASURE.

13. THE EROSION CONTROL MEASURES INDICATED ON THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER OR GOVERNING AGENCY.

14. THE CONDITION OF THE CONSTRUCTION SITE FOR WINTER SHUTDOWN SHALL BE ADDRESSED EARLY IN THE FALL GROWING SEASON SO THAT SLOPES AND OTHER EARTH AREAS MAY BE STABILIZED WITH TEMPORARY AND/OR PERMANENT VEGETATIVE COVER FOR PROPER EROSION AND SEDIMENT CONTROL. ALL OPEN AREAS THAT ARE TO REMAIN IDLE THROUGHOUT THE WINTER SHALL RECEIVE TEMPORARY EROSION CONTROL MEASURES INCLUDING TEMPORARY SEEDING, MULCHING AND/OR EROSION CONTROL BLANKET PRIOR TO THE END OF THE FALL GROWING SEASON. THE AREAS TO BE WORKED BEYOND THE END OF THE GROWING SEASON MUST INCORPORATE SOIL STABILIZATION MEASURES THAT DO NOT RELY ON VEGETATIVE COVER SUCH AS EROSION CONTROL BLANKET AND HEAVY MULCHING.

15. UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED ACCORDING TO ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, ADOPTED APRIL 1, 2016.

16. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE ENGINEER.

17. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO INFORM ANY SUB-CONTRACTORS WHO MAY PERFORM WORK ON THIS PROJECT OF THE REQUIREMENTS IN IMPLEMENTING AND MAINTAINING THESE EROSION CONTROL PLANS AND THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT REQUIREMENT SET FORTH BY THE ILLINOIS EPA.

18. ALL ESC MEASURES WILL BE MAINTAINED IN ACCORDANCE WITH THE IDOT EROSION AND SEDIMENT CONTROL FIELD GUIDE FOR CONSTRUCTION INSPECTION AND IDOT'S BEST MANAGEMENT PRACTICES - MAINTENANCE GUIDE: HTTP://WWW.IDOT.ILLINOIS.GOV//TRANSPORTATION-SYSTEM/ENVIRONMENT/EROSION-AND-SEDIMENT-CONTROL).

19. THE CONTRACTOR SHOULD PROVIDE TO THE RE A PLAN TO ENSURE THAT A STABILIZED FLOW LINE WILL BE PROVIDED DURING STORM SEWER CONSTRUCTION. THE USE OF A STABILIZED FLOW LINE BETWEEN INSTALLED STORM SEWER AND OPEN DISTURBANCE WILL REDUCE THE POTENTIAL FOR THE OFFSITE DISCHARGE OF SEDIMENT-BEARING WATERS, ESPECIALLY WHEN RAIN IS FORECASTED, SO THAT FLOW WILL NOT ERODE. LACK OF APPROVED PLAN OR FAILURE TO COMPLY WILL RESULT IN AN ESC DEFICIENCY DEDUCTION.

20. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR PROLONG FINAL GRADING AND SHAPING SO THAT THE ENTIRE PROJECT CAN BE PERMANENTLY SEEDED AT ONE TIME.

21. THIS PROJECT REQUIRES A US ARMY CORPS OF ENGINEERS (USACE) 404 PERMIT THAT WILL BE SECURED BY THE DEPARTMENT. ALL CONDITIONS OF THE 404 PERMIT, FOUND IN THE SPECIAL PROVISIONS, MUST BE FOLLOWED. AS A CONDITION OF THIS PERMIT, THE CONTRACTOR WILL NEED TO SUBMIT AN IN-STREAM WORK PLAN (INCLUDING WORK WITHIN WETLANDS) TO THE DEPARTMENT FOR APPROVAL. GUIDELINES ON ACCEPTABLE IN-STREAM WORK TECHNIQUES (INCLUDING WORK WITHIN WETLANDS) CAN BE FOUND ON THE USACE WEBSITE. THE USACE DEFINES AND DETERMINES IN-STREAM WORK. THE COST OF ALL MATERIALS AND LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS TO PREPARE AND IMPLEMENT AN IN-STREAM WORK PLAN (INCLUDING WORK WITHIN WETLANDS) WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

22. "WETLANDS NO INTRUSION" SIGNAGE SHOULD ALSO BE PROVIDED AT THE BOUNDARY OF ALL UN-IMPACTED WETLANDS AND/OR WOUS. THE CONTRACTOR CAN BORROW THE SIGNS FROM THE BUREAU OF MAINTENANCE. INCLUDE TEMPORARY FENCING AND WETLAND SIGNAGE WITHIN THE EROSION AND SEDIMENT CONTROL STRATEGY.

IN-STREAM WORK REQUIREMENTS:

1. THIS PROJECT REQUIRES A U.S. ARMY CORPS OF ENGINEERS (USACE) 404 PERMIT THAT WILL BE SECURED BY THE DEPARTMENT. AS A CONDITION OF THIS PERMIT, THE CONTRACTOR WILL NEED TO SUBMIT AN IN-STREAM WORK PLAN TO THE DEPARTMENT FOR APPROVAL. GUIDELINES ON ACCEPTABLE IN-STREAM WORK TECHNIQUES CAN BE FOUND ON THE USACE WEBSITE. THE USACE DEFINES AND DETERMINES IN-STREAM WORK. THE COST OF ALL MATERIALS AND LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS TO PREPARE AND IMPLEMENT AN IN-STREAM WORK PLAN WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED WITH THE EXCEPTION OF COFFERDAMS WHICH WILL BE PAID FOR AS COFFERDAM (TYPE 1) (IN-STREAM/WETLAND WORK) WITH A BASIS OF PAYMENT OF EACH.

2. WORK IN THE WATERWAY SHOULD BE TIMED TO TAKE PLACE DURING LOW OR NO-FLOW CONDITIONS. LOW FLOW CONDITIONS ARE AT OR BELOW THE NORMAL WATER ELEVATION.

3. THE IN-STREAM WORK PLAN MUST BE DESIGNED TO ALLOW FOR THE CONVEYANCE OF THE 2-YEAR PEAK FLOW PAST THE WORK AREA WITHOUT OVERTOPPING THE COFFERDAM. THE CORPS HAS THE DISCRETION TO REDUCE THIS REQUIREMENT IF DOCUMENTED BY THE APPLICANT TO BE INFEASIBLE OR UNNECESSARY.

4. WATER MUST BE ISOLATED FROM THE IN-STREAM WORK AREA USING A COFFERDAM CONSTRUCTED OF NON-ERODIBLE MATERIALS (STEEL SHEETS, AQUA BARRIERS, RIP RAP AND GEOTEXTILE LINER, ETC.). EARTHEN COFFERDAMS ARE NOT PERMISSIBLE.

5. THE COFFERDAM MUST BE CONSTRUCTED FROM THE UPLAND AREA AND NO EQUIPMENT MAY ENTER THE WATER AT ANY TIME. IF THE INSTALLATION OF THE COFFERDAM CANNOT BE COMPLETED FROM THE SHORE AND ACCESS IS NEEDED TO REACH THE AREA TO BE COFFERED, OTHER MEASURES, SUCH AS THE CONSTRUCTION OF A CAUSEWAY, WILL BE NECESSARY TO ENSURE THAT EQUIPMENT DOES NOT ENTER THE WATER. ONCE THE COFFERDAM IS IN PLACE AND THE ISOLATED AREA IS DEWATERED, EQUIPMENT MAY ENTER THE COFFERED AREA TO PERFORM THE REQUIRED WORK.

6. IF BYPASS PUMPING IS NECESSARY, THE INTAKE HOSE MUST BE PLACED ON A STABLE SURFACE OR FLOATED TO PREVENT SEDIMENT FROM ENTERING THE HOSE. THE BYPASS DISCHARGE MUST BE RELEASED ONTO A NON-ERODIBLE, ENERGY DISSIPATING SURFACE PRIOR TO REJOINING THE STREAM FLOW AND MUST NOT CAUSE EROSION. FILTERING OF BYPASS WATER IS NOT NECESSARY UNLESS THE BYPASS WATER HAS BECOME SEDIMENT-LADEN AS A RESULT OF THE CURRENT CONSTRUCTION ACTIVITIES.

7. DURING DEWATERING OF THE COFFERED WORK AREA, ALL SEDIMENT-LADEN WATER MUST BE FILTERED TO REMOVE SEDIMENT. POSSIBLE OPTIONS FOR SEDIMENT REMOVAL INCLUDE BAFFLE SYSTEMS, ANIONIC POLYMERS SYSTEMS, DEWATERING BAGS, OR OTHER APPROPRIATE METHODS. WATER MUST HAVE SEDIMENT REMOVED PRIOR TO BEING RE-INTRODUCED TO THE DOWNSTREAM WATERWAY. A STABILIZED CONVEYANCE FROM THE DEWATERING DEVICE TO THE WATERWAY MUST BE IDENTIFIED IN THE PLAN. DISCHARGE WATER MAY NOT RESULT IN A VISUALLY IDENTIFIABLE DEGRADATION OF WATER CLARITY.

8. THE AREA FROM THE TOE TO THE TOP OF SIDE SLOPE MUST BE TEMPORARILY STABILIZED DURING CONSTRUCTION TO REDUCE THE POTENTIAL FOR EROSION. ALL AREAS DISTURBED DUE TO CONSTRUCTION ACTIVITIES MUST BE RESTORED TO PROPOSED CONDITIONS AND FULLY STABILIZED PRIOR TO ACCEPTING FLOWS.

NOTES – PRESTAGE

1. CONTRACTOR MUST MULCH ALL AREAS DISTURBED AS A RESULT OF TEMPORARY PAVEMENT PLACEMENT IN PRE-STAGE.

2. PERIMETER EROSION BARRIER WILL BE PLACED ALONG THE PERIMETER OF THE AREA TO BE CLEARED AND GRADED BEFORE ANY CLEARING OR GRADING TAKES PLACE.

3. CONTRACTOR SHALL INSTALL TEMPORARY DITCH CHECK, INLET FILTERS AT THE EXISTING DRAINAGE STRUCTURES, STONE RIPRAP AND TEMPORARY SEDIMENT BASIN IN PRE-STAGE.

NOTES – STAGE I

1. THE PERIMETER EROSION BARRIER, INLET FILTERS, STONE RIPRAP AND TEMPORARY SEDIMENT BASIN CONSTRUCTED DURING PRE-STAGE WILL STAY IN-PLACE IN STAGE I. IF ANY NEW DRAINAGE STRUCTURE IS CONSTRUCTED IN STAGE I, THE CONTRACTOR SHALL PROVIDE INLET FILTERS TO PREVENT ANY SEDIMENTATION FROM ENTERING THE NEW STRUCTURE.

2. FINAL LANDSCAPING RESTORATION AT COMPLETED ROADWAY SECTION SHALL BE IMPLEMENTED UPON COMPLETION OF THAT STAGE I SECTION CONSTRUCTION. SEE LANDSCAPING PLANS FOR FINAL RESTORATION.

NOTES – STAGE II

1. CONTRACTOR MUST MAINTAIN PERIMETER EROSION BARRIER, TEMPORARY DITCH CHECK, INLET FILTERS, STONE RIPRAPS AND TEMPORARY SEDIMENT BASIN INSTALLED IN PRE-STAGE.

2. ALL THE NEWLY CONSTRUCTED DRAINAGE STRUCTURES IN STAGE II SHALL BE PROTECTED BY INSTALLATION OF INLET FILTERS AT THESE STRUCTURES.

NOTES – STAGE III

1. ALL EROSION CONTROL ITEMS INSTALLED IN PREVIOUS STAGES INCLUDING PERIMETER EROSION BARRIER SHALL BE MAINTAINED UNTIL CONSTRUCTION IS COMPLETED.

2. ANY AREAS THAT WILL BE UNDISTURBED FOR MORE THAN 14 DAYS AND FINAL LANDSCAPING CAN NOT BE IMPLEMENTED SHALL USE TEMPORARY SEEDING AND MULCH WITHIN 7 DAYS.

3. PERIMETER EROSION BARRIER WILL BE PLACED ALONG THE PERIMETER OF THE AREA TO BE CLEARED AND GRADED BEFORE ANY CLEARING OR GRADING TAKES PLACE.

4. PRE-STAGE EROSION CONTROL MEASURES SHALL BE UTILIZED DURING STAGE III WHENEVER IS POSSIBLE. MAINTAIN EROSION CONTROL ITEMS UNTIL COMPLETION OF CONSTRUCTION.

5. FINAL LANDSCAPING RESTORATION AT COMPLETED ROADWAY SECTION SHALL BE IMPLEMENTED UPON COMPLETION OF STAGE III CONSTRUCTION. SEE LANDSCAPING PLAN FOR FINAL RESTORATION.

6. REPLACEMENT OF TEMPORARY EROSION CONTROL SEEDING WITH MULCH METHOD 3A SHALL BE INSTALLED WITHIN 24 HOURS OF INSTALLATION OF PROPOSED DRAINAGE ITEMS AND SHALL BE INCIDENTAL.

NOTES – STAGE IV

1. PERIMETER EROSION BARRIER WILL BE PLACED ALONG THE PERIMETER OF THE AREA TO BE CLEARED AND GRADED BEFORE ANY CLEARING OR GRADING TAKES PLACE.

2. FINAL LANDSCAPING RESTORATION AT COMPLETED ROADWAY SECTION SHALL BE IMPLEMENTED UPON COMPLETION OF STAGE IV CONSTRUCTION. SEE LANDSCAPING PLAN FOR FINAL RESTORATION.

NOTES – STAGE V

1. CONTRACTOR MUST MAINTAIN PERIMETER EROSION BARRIER, TEMPORARY DITCH CHECK, INLET FILTERS, STONE RIPRAPS AND TEMPORARY SEDIMENT BASIN INSTALLED IN PRE-STAGE.

2. ALL THE NEWLY CONSTRUCTED DRAINAGE STRUCTURES IN STAGE II SHALL BE PROTECTED BY INSTALLATION OF INLET FILTERS AT THESE STRUCTURES.

NOTES – STAGE VI

1. PERIMETER EROSION BARRIER WILL BE PLACED ALONG THE PERIMETER OF THE AREA TO BE CLEARED AND GRADED BEFORE ANY CLEARING OR GRADING TAKES PLACE.

2. FINAL LANDSCAPING RESTORATION AT COMPLETED ROADWAY SECTION SHALL BE IMPLEMENTED UPON COMPLETION OF STAGE VI CONSTRUCTION. SEE LANDSCAPING PLAN FOR FINAL RESTORATION.

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USER NAME = HMartens	DESIGNED - MTM	REVISED -
	DRAWN - MTM	REVISED -
PLOT SCALE = NTS	CHECKED - BA	REVISED -
PLOT DATE = 1/25/2019	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL EROSION & SEDIMENTATION CONTROL – GENERAL NOTES
IL ROUTE 47 AT MAIN STREET

SCALE: 1" = 50' | SHEET 1 OF 5 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	107N-4	KANE	288	106
		CONTRACT NO. 60T21		
	ILLINOIS FED. AID PROJECT			

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NOTES:

1. INSTALL INLET FILTERS ON ALL EXISTING OPEN LID STRUCTURES.
2. TEMPORARY EROSION CONTROL SEEDING & MULCH 3A SHALL BE PLACED IN ACCORDANCE WITH THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS ON AREAS WITH SLOPES 1:3 OR STEEPER.

PROJECT LIMIT STA. 488+88.00

IL ROUTE 47

TALL OAKS TRAIL

EXIST. R.O.W.
15" CMP
PAVED DITCH
18" CMP
L 490+00
L 495+00
TEMP. EASE.
TEMP.

PERIMETER EROSION BARRIER, 195 LF
STONE RIPRAP, CLASS A1 FILTER FABRIC 10.0 S.Y. (EA)
STONE RIPRAP, CLASS A1 FILTER FABRIC 10.0 S.Y. (EA)
PERIMETER EROSION BARRIER, 385 LF
STONE RIPRAP, CLASS A1 FILTER FABRIC 10.0 S.Y. (EA)
TEMPORARY EROSION CONTROL SEEDING & MULCH 3A - 1180 SY
STONE RIPRAP, CLASS A1 FILTER FABRIC 10.0 S.Y.
PERIMETER EROSION BARRIER, 435 LF
PERIMETER EROSION BARRIER, 240 LF
TEMPORARY EROSION CONTROL SEEDING & MULCH 3A - 832 SY
INLET FILTER TO BE INSTALLED AT EXIST. DRAINAGE STRUCTURE (TYP.)
TEMPORARY EROSION CONTROL SEEDING & MULCH 3A - 888 SY
PERIMETER EROSION BARRIER, 220 LF
MATCH LINE STA. 498+00 - SEE BELOW

MATCH LINE STA. 498+00 - SEE ABOVE

MAIN STREET

PERIMETER EROSION BARRIER, 134 LF
STONE RIPRAP, CLASS A1 FILTER FABRIC 10.0 S.Y. (EA)
PROP. R.O.W.
EXIST. R.O.W.
EASE. R.O.W.
L 500+00
WETLAND SITE 3
IMPACTED AREA = 0.01 Ac.
TOTAL AREA = 0.09 Ac.
FQI = 6.7
WETLAND EXCLUSION FENCING, 620 LF AND 36"X36" "WETLAND NO INTRUSION" SIGNAGE MOUNTED ON THE FENCE.
WETLAND SITE 4
NO IMPACT
WETLAND SITE 5
IMPACTED AREA = 0.43 Ac.
TOTAL AREA = 2.02 Ac.
FQI = 17.2
PERIMETER EROSION BARRIER, 168 LF
STONE RIPRAP, CLASS A1 FILTER FABRIC 10.0 S.Y. (EA)
TEMPORARY EROSION CONTROL SEEDING WITH MULCH METHOD 3A- 195 SY
TEMPORARY EROSION CONTROL SEEDING WITH MULCH METHOD 3A- 278 SY
TEMPORARY EROSION CONTROL SEEDING WITH MULCH METHOD 3A- 1,017 SY
PERIMETER EROSION BARRIER, 627 LF
TEMPORARY EROSION CONTROL SEEDING WITH MULCH METHOD 3A- 1,724 SY
BLACKBERRY CREEK
FLOODWAY BOUNDARY
FLOODPLAIN BOUNDARY
FLOODPLAIN BOUNDARY
FLOODWAY BOUNDARY
WETLAND EXCLUSION FENCING, 1,020 LF AND 36"X36" "WETLAND NO INTRUSION" SIGNAGE MOUNTED ON THE FENCE.
IL RTE. 47
L 510+00
PROJECT LIMIT STA. 511+36.00

LEGEND:

- PERIMETER EROSION BARRIER (SILT FENCE, SEE STD. 280001)
- TEMPORARY DITCH CHECK
- INLET FILTER
- STONE RIPRAP, CLASS A1
- TEMPORARY SEDIMENT BASIN SIZE: 10'x5'x3'
- TEMPORARY PAVEMENT (SEE MOT PLANS FOR LOCATIONS)
- TEMPORARY FENCE
- TEMPORARY EROSION CONTROL SEEDING WITH MULCH METHOD 3A

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USER NAME = JKando	DESIGNED - MTM	REVISED -
	DRAWN - MTM	REVISED -
PLOT SCALE = NTS	CHECKED - BA	REVISED -
PLOT DATE = 3/6/2019	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY EROSION CONTROL PLAN – IL ROUTE 47 – PRE-STAGE
IL ROUTE 47 AT MAIN STREET

SCALE: 1" = 50' | SHEET 2 OF 5 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	107N-4	KANE	288	107
		CONTRACT NO. 60T21		
	ILLINOIS	FED. AID PROJECT		

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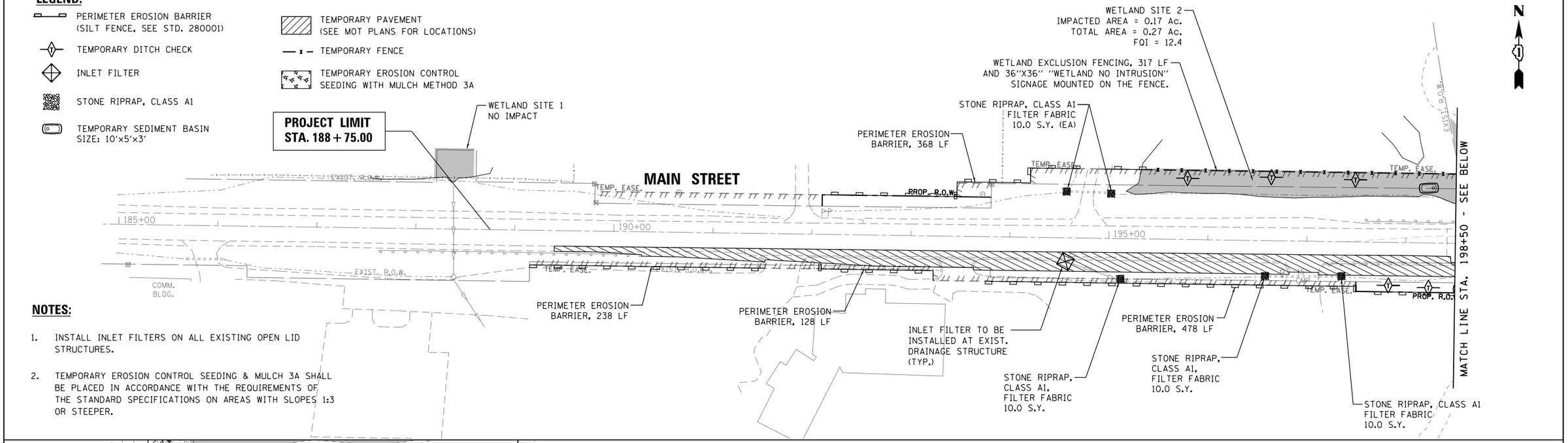
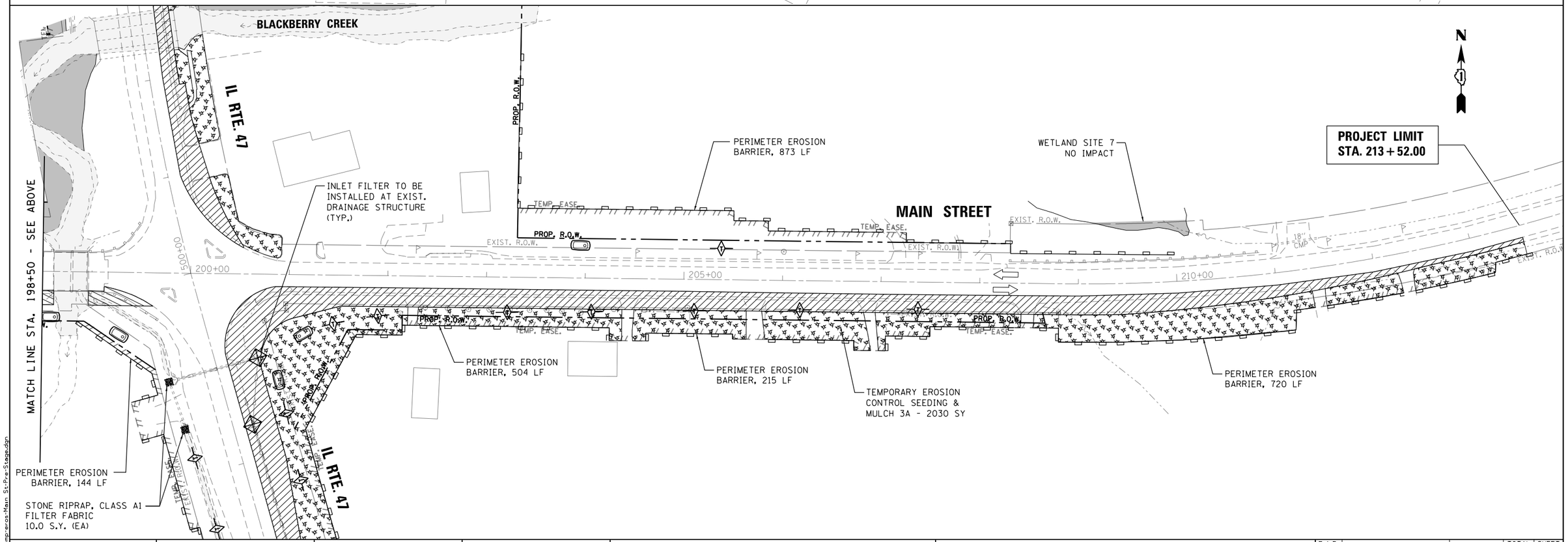
LEGEND:

- PERIMETER EROSION BARRIER (SILT FENCE, SEE STD. 280001)
- TEMPORARY DITCH CHECK
- INLET FILTER
- STONE RIPRAP, CLASS A1
- TEMPORARY SEDIMENT BASIN SIZE: 10'x5'x3'
- TEMPORARY PAVEMENT (SEE MOT PLANS FOR LOCATIONS)
- TEMPORARY FENCE
- TEMPORARY EROSION CONTROL SEEDING WITH MULCH METHOD 3A

NOTES:

1. INSTALL INLET FILTERS ON ALL EXISTING OPEN LID STRUCTURES.
2. TEMPORARY EROSION CONTROL SEEDING & MULCH 3A SHALL BE PLACED IN ACCORDANCE WITH THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS ON AREAS WITH SLOPES 1:3 OR STEEPER.





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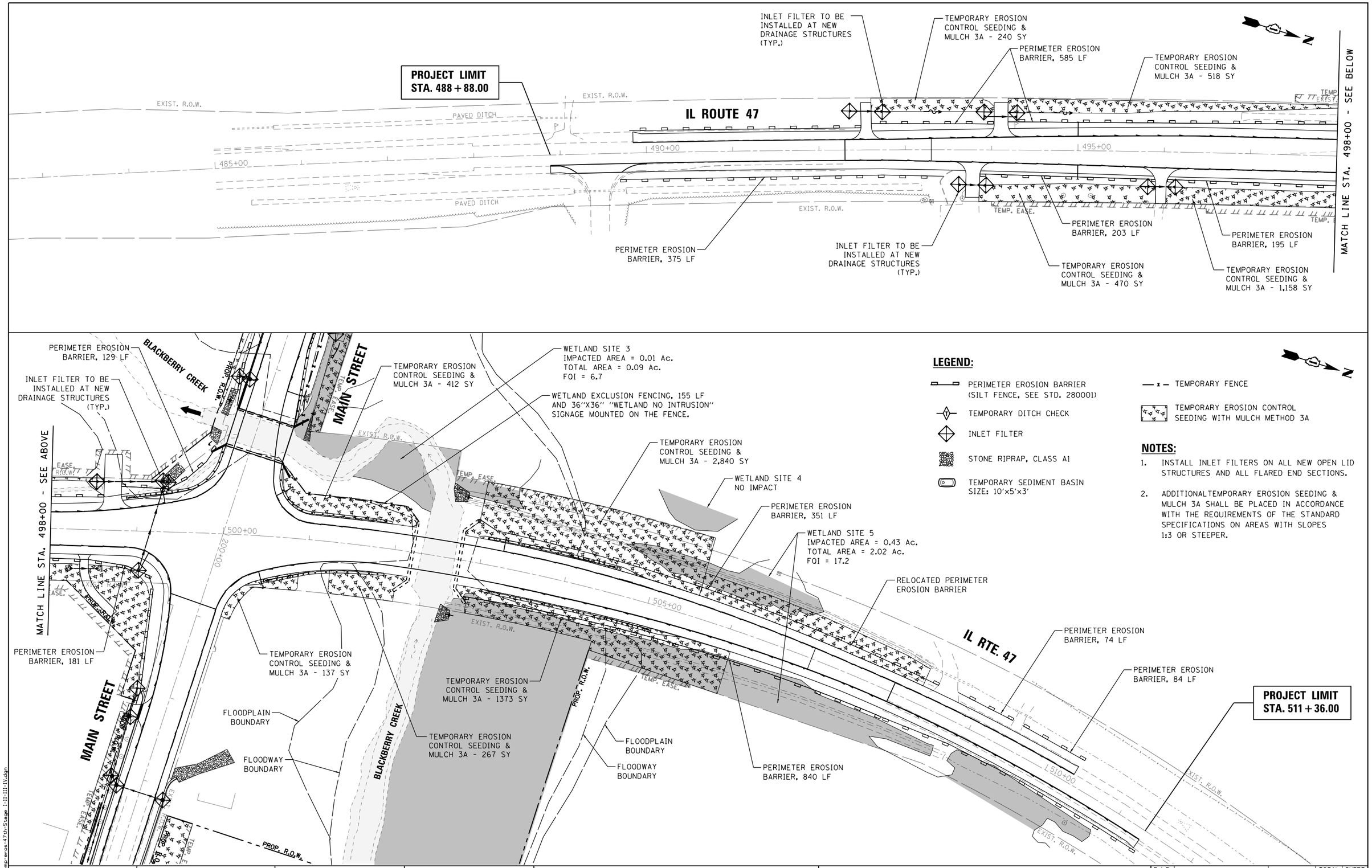
	DRAWN - MTM	REVISED -
PLOT SCALE = NTS	CHECKED - BA	REVISED -
PLOT DATE = 3/6/2019	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY EROSION CONTROL PLAN – MAIN ST – PRE-STAGE
IL ROUTE 47 AT MAIN STREET

SCALE: 1" = 50' | SHEET 3 OF 5 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	107N-4	KANE	288	108
		CONTRACT NO. 60T21		
	ILLINOIS	FED. AID PROJECT		



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PLOT SCALE = NTS	CHECKED - BA	REVISED -
PLOT DATE = 3/6/2019	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY EROSION CONTROL PLAN – IL ROUTE 47 – STAGE I–VI
IL ROUTE 47 AT MAIN STREET

SCALE: 1" = 50' | SHEET 4 OF 5 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	107N-4	KANE	288	109
		CONTRACT NO. 60T21		
		ILLINOIS FED. AID PROJECT		

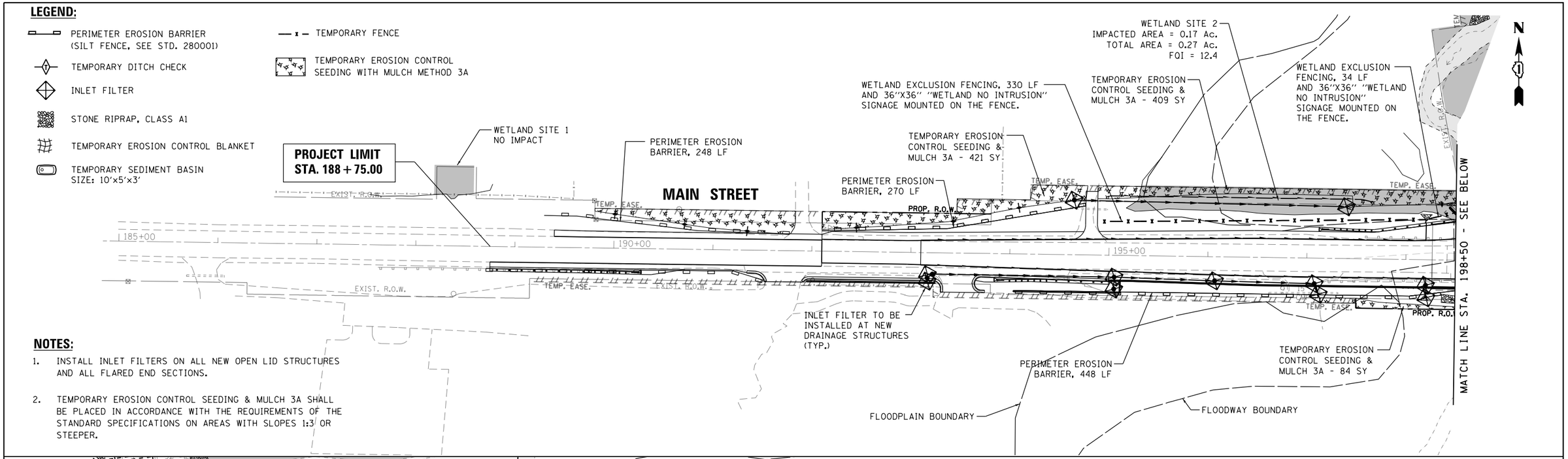
D160721-sht-temp-eros-47th-Stage I-II-III-IV.dgn

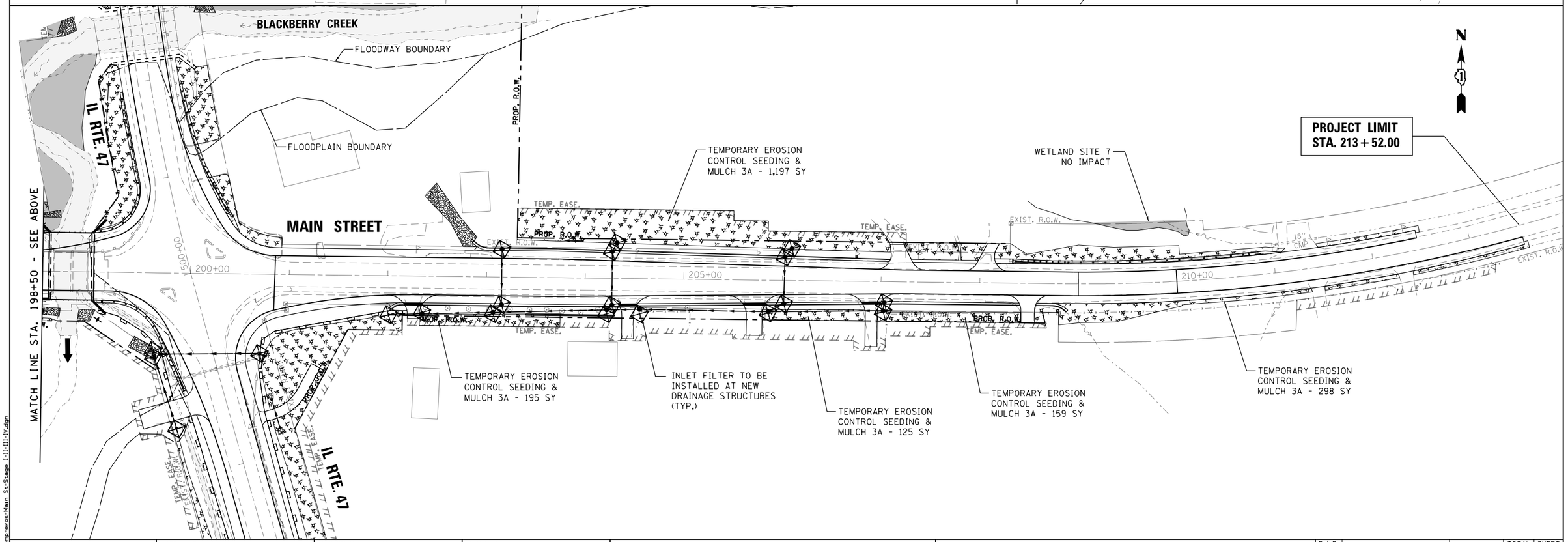
LEGEND:

- PERIMETER EROSION BARRIER (SILT FENCE, SEE STD. 280001)
- TEMPORARY DITCH CHECK
- INLET FILTER
- STONE RIPRAP, CLASS A1
- TEMPORARY EROSION CONTROL BLANKET
- TEMPORARY SEDIMENT BASIN SIZE: 10'x5'x3'
- TEMPORARY FENCE
- TEMPORARY EROSION CONTROL SEEDING WITH MULCH METHOD 3A

NOTES:

1. INSTALL INLET FILTERS ON ALL NEW OPEN LID STRUCTURES AND ALL FLARED END SECTIONS.
2. TEMPORARY EROSION CONTROL SEEDING & MULCH 3A SHALL BE PLACED IN ACCORDANCE WITH THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS ON AREAS WITH SLOPES 1:3 OR STEEPER.





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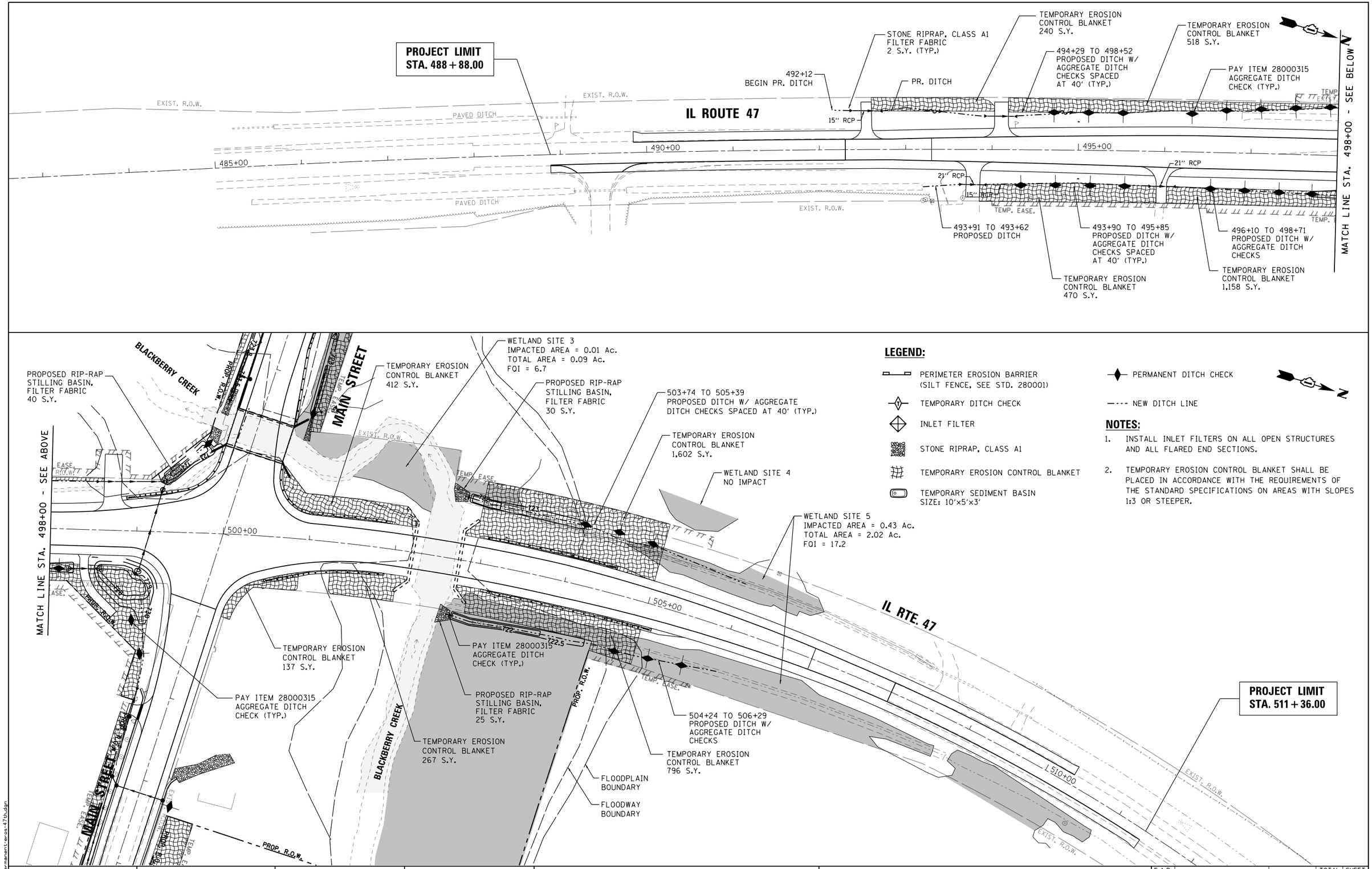
PLOT SCALE = NTS	CHECKED - BA	REVISED -
PLOT DATE = 3/6/2019	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY EROSION CONTROL PLAN – MAIN ST – STAGE I–VI
IL ROUTE 47 AT MAIN STREET

SCALE: 1" = 50' | SHEET 5 OF 5 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	107N-4	KANE	288	110
		CONTRACT NO. 60T21		
	ILLINOIS FED. AID PROJECT			



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USER NAME = JKando	DESIGNED - MTM	REVISED -
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PLOT SCALE = NTS	CHECKED - BA	REVISED -
PLOT DATE = 3/6/2019	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PERMANENT EROSION CONTROL PLAN – IL ROUTE 47
IL ROUTE 47 AT MAIN STREET

SCALE: 1" = 50' | SHEET 1 OF 2 SHEETS | STA. | TO STA.

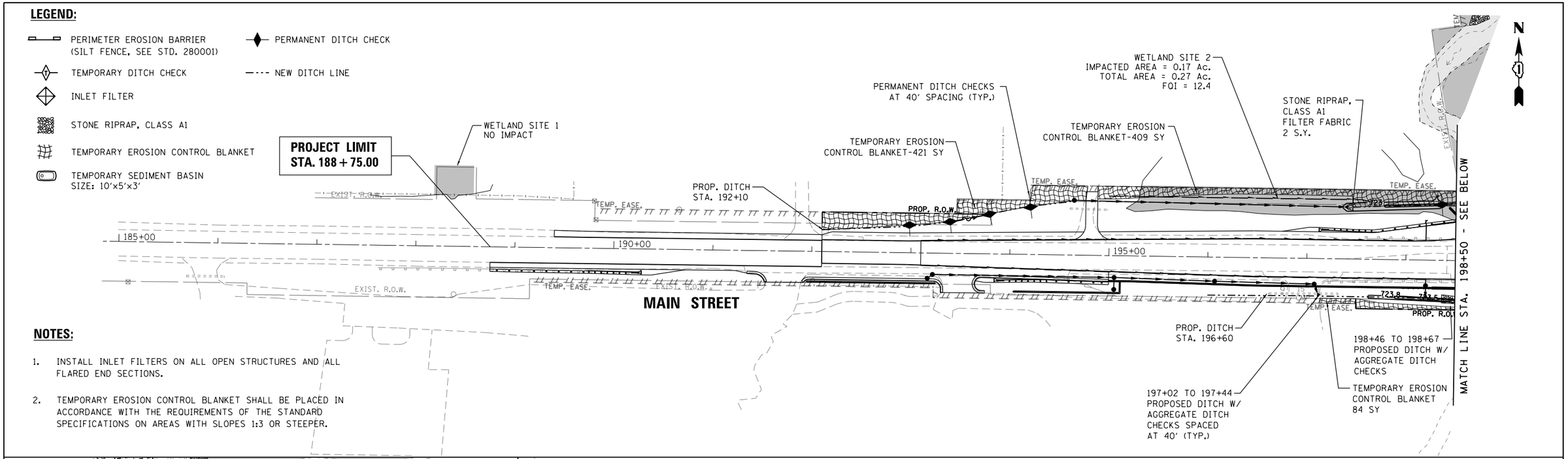
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	107N-4	KANE	288	111
		CONTRACT NO. 60T21		
	ILLINOIS FED. AID PROJECT			

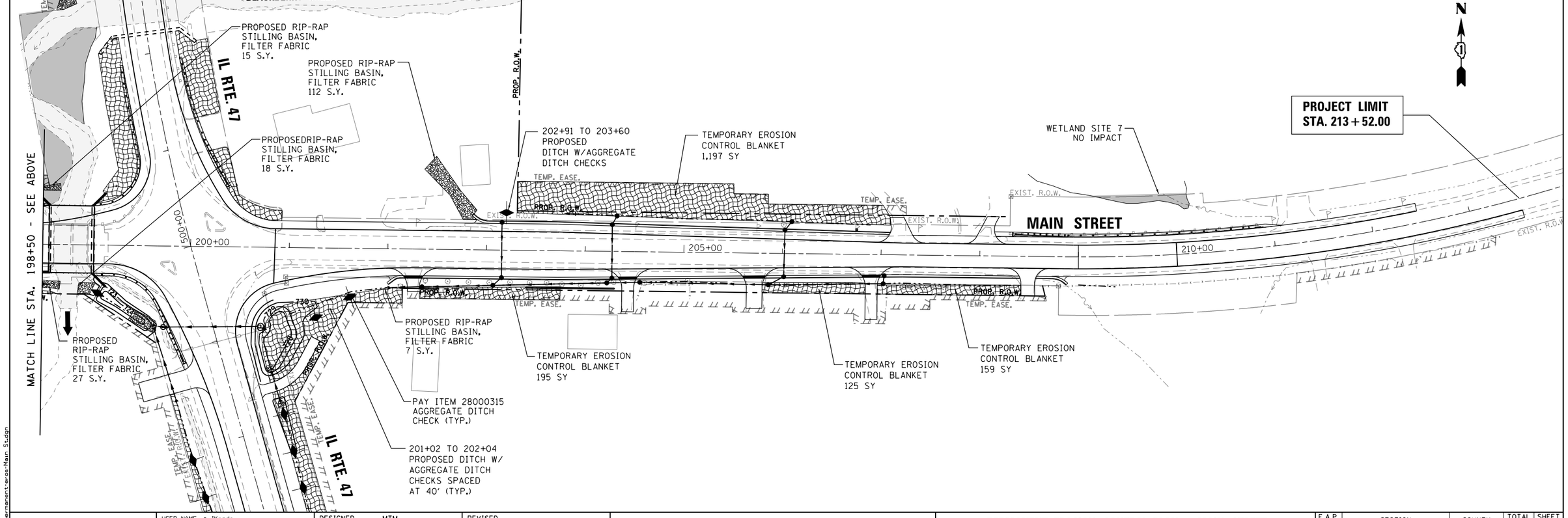
LEGEND:

- PERIMETER EROSION BARRIER (SILT FENCE, SEE STD. 280001)
- TEMPORARY DITCH CHECK
- INLET FILTER
- STONE RIPRAP, CLASS A1
- TEMPORARY EROSION CONTROL BLANKET
- TEMPORARY SEDIMENT BASIN SIZE: 10'x5'x3'
- PERMANENT DITCH CHECK
- NEW DITCH LINE

NOTES:

1. INSTALL INLET FILTERS ON ALL OPEN STRUCTURES AND ALL FLARED END SECTIONS.
2. TEMPORARY EROSION CONTROL BLANKET SHALL BE PLACED IN ACCORDANCE WITH THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS ON AREAS WITH SLOPES 1:3 OR STEEPER.





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TEL. (312)857-1006 FAX. (312)857-1056

USER NAME = JKando	DESIGNED - MTM	REVISED -
	DRAWN - MTM	REVISED -
PLOT SCALE = NTS	CHECKED - BA	REVISED -
PLOT DATE = 3/6/2019	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

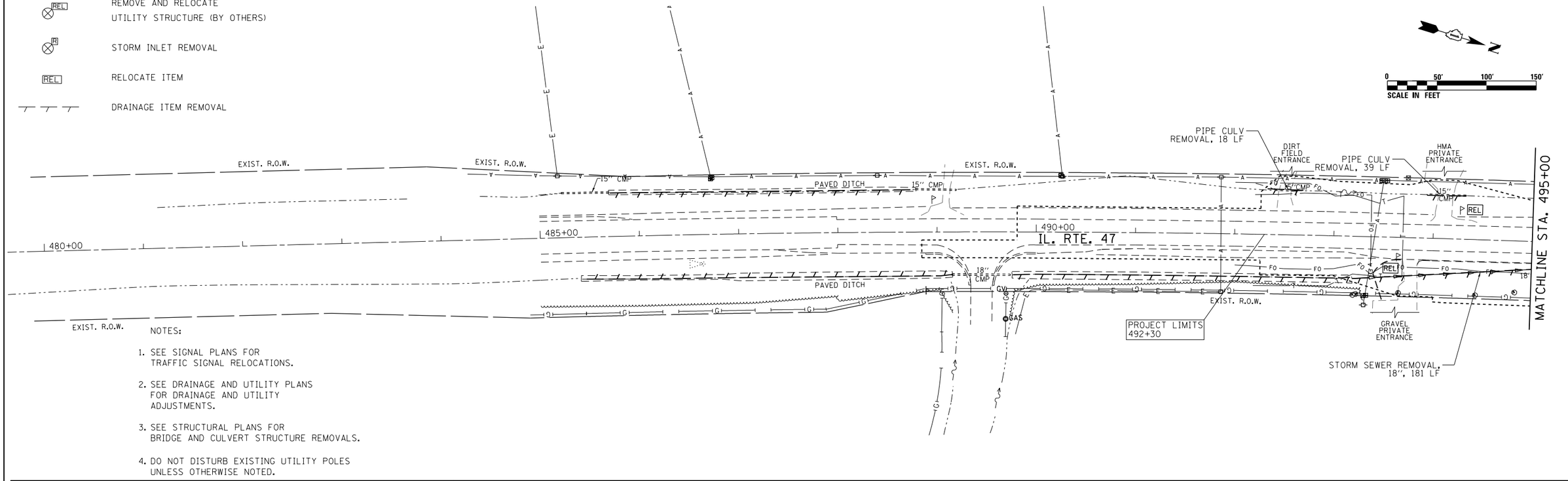
PERMANENT EROSION CONTROL PLAN – MAIN STREET
IL ROUTE 47 AT MAIN STREET

SCALE: 1" = 50' | SHEET 2 OF 2 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	107N-4	KANE	288	112
		CONTRACT NO. 6OT21		
	ILLINOIS FED. AID PROJECT			

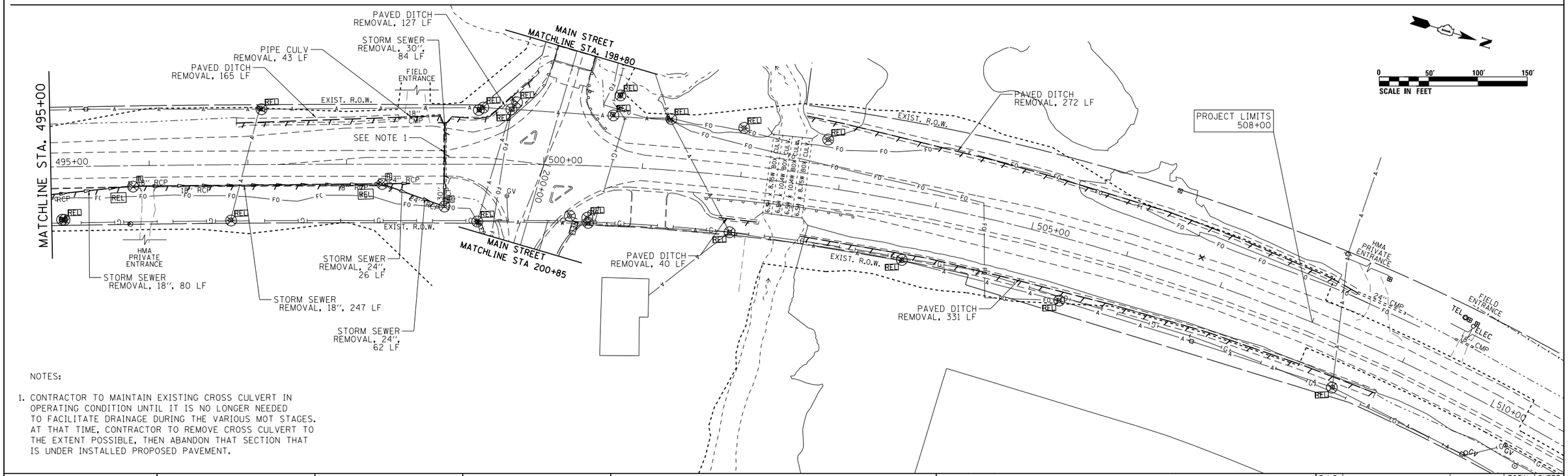
REMOVAL LEGEND

- REMOVE AND RELOCATE UTILITY STRUCTURE (BY OTHERS)
- STORM INLET REMOVAL
- RELOCATE ITEM
- DRAINAGE ITEM REMOVAL



NOTES:

1. SEE SIGNAL PLANS FOR TRAFFIC SIGNAL RELOCATIONS.
2. SEE DRAINAGE AND UTILITY PLANS FOR DRAINAGE AND UTILITY ADJUSTMENTS.
3. SEE STRUCTURAL PLANS FOR BRIDGE AND CULVERT STRUCTURE REMOVALS.
4. DO NOT DISTURB EXISTING UTILITY POLES UNLESS OTHERWISE NOTED.



NOTES:

1. CONTRACTOR TO MAINTAIN EXISTING CROSS CULVERT IN OPERATING CONDITION UNTIL IT IS NO LONGER NEEDED TO FACILITATE DRAINAGE DURING THE VARIOUS MOT STAGES. AT THAT TIME, CONTRACTOR TO REMOVE CROSS CULVERT TO THE EXTENT POSSIBLE, THEN ABANDON THAT SECTION THAT IS UNDER INSTALLED PROPOSED PAVEMENT.

PLAN / PROFILE — SURVEYED, PLOTTED, ALIGNMENT CHECKED, RT. OF WAY CHECKED, CADD FILE NAME, NOTE BOOK, NO., BY, DATE

FILE NAME = P:\2015\0558 IDOT Dist IL Route 47 at Main S of Elburn (PTB 171-04)\04-CADD\01 CADD Sheets\D160121-sht-dgn01.dgn

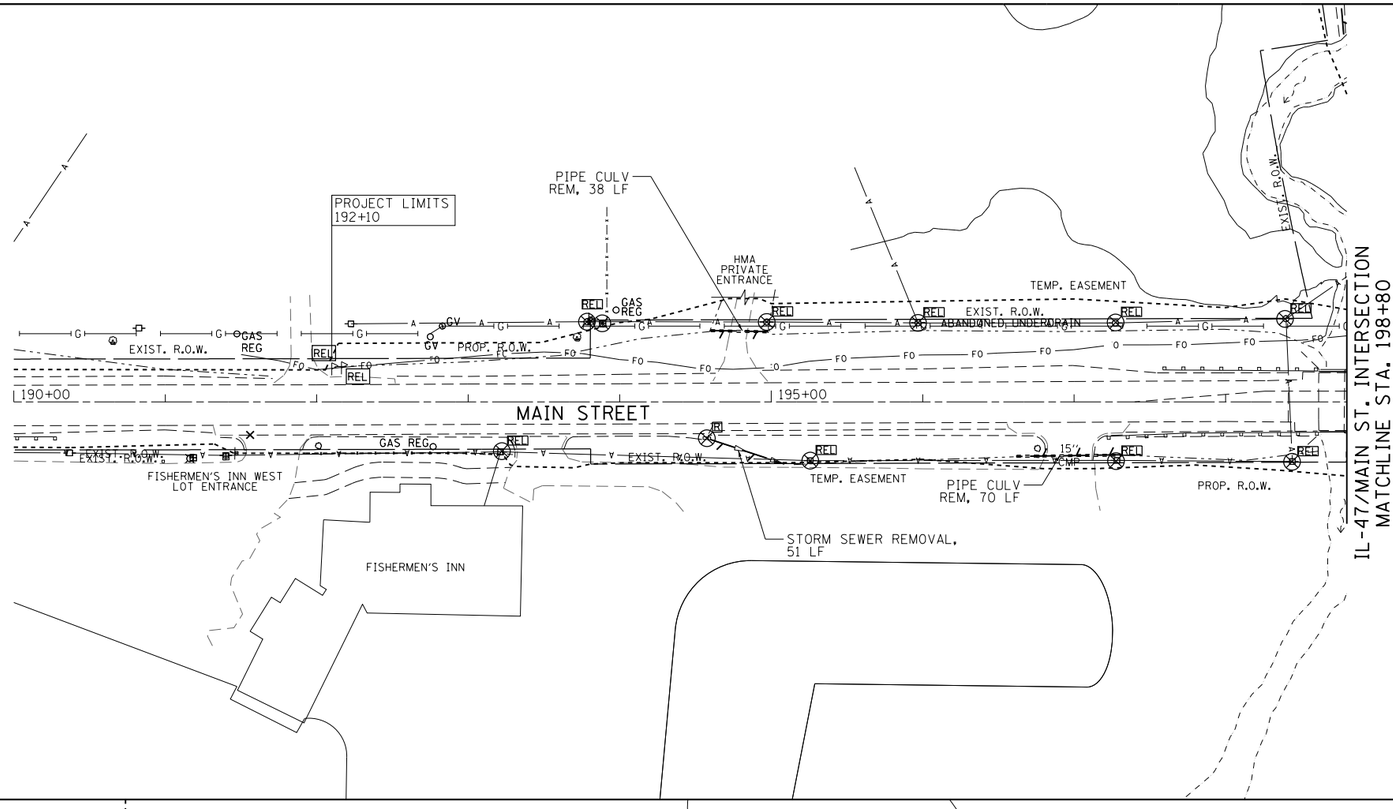
USER NAME = mlopez2	DESIGNED - CB	REVISED -	
FILE NAME =	DRAWN - LB	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - CB	REVISED -	
PLOT DATE = 1/28/2019	DATE - 1/28/19	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE AND UTILITY REMOVAL

SCALE: 1"=50' | SHEET NO. 1 OF 2 SHEETS | STA. 492+30 TO STA. 508+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	107N-4	KANE	288	113
		CONTRACT NO. 60T21		
	ILLINOIS FED. AID PROJECT			



REMOVAL LEGEND

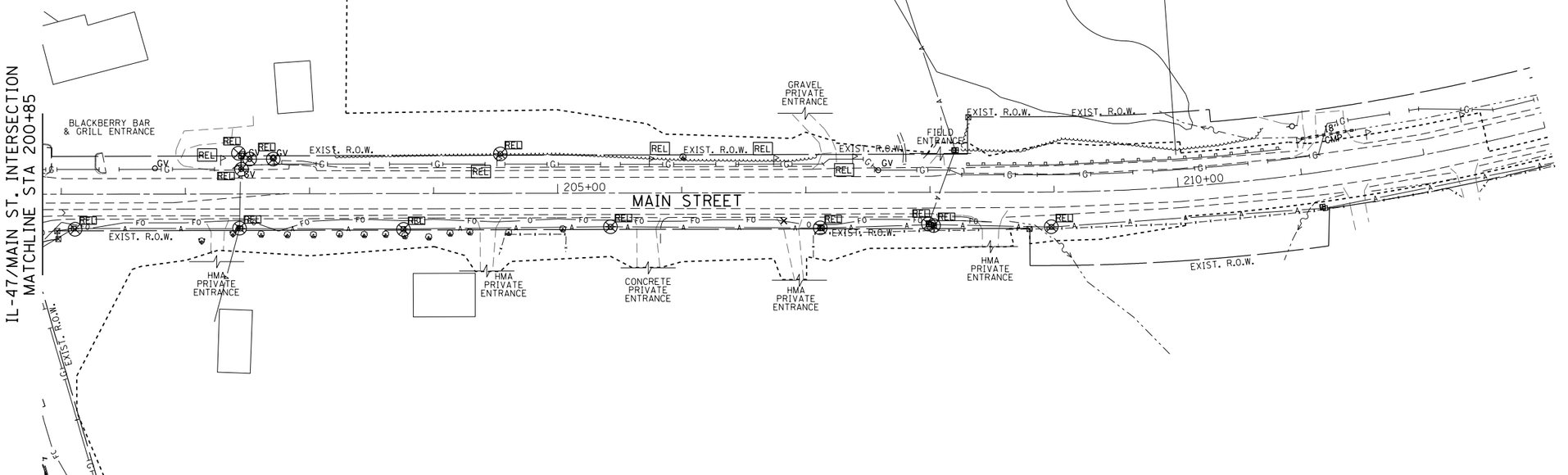
- REL — REMOVE AND RELOCATE UTILITY STRUCTURE (BY OTHERS)
- I — STORM INLET REMOVAL
- REL — RELOCATE ITEM
- DRAINAGE ITEM REMOVAL

NOTES:

1. SEE SIGNAL PLANS FOR TRAFFIC SIGNAL RELOCATIONS.
2. SEE DRAINAGE AND UTILITY PLANS FOR DRAINAGE AND UTILITY ADJUSTMENTS.
3. SEE STRUCTURAL PLANS FOR BRIDGE AND CULVERT STRUCTURE REMOVALS.
4. DO NOT DISTURB EXISTING UTILITY POLES UNLESS OTHERWISE NOTED.

N

0 50' 100' 150'
SCALE IN FEET



N

0 50' 100' 150'
SCALE IN FEET

PLAN — SURVEYED, PLOTTED, ALIGNMENT CHECKED, RT. OF WAY CHECKED, CADD FILE NAME, NOTE BOOK, NO., BY, DATE

PROFILE — SURVEYED, PLOTTED, GRADES CHECKED, BM. NOTED, STRUCTURE NOTATNS CHKD, BY, DATE

FILE NAME = P:\2015\0558 IDOT Dist IL Route 47 at Main S of Elburn (FTB 171-041\04-CADD\01 CADD\Sheets\D1607215-int-dr-dan02.dgn

MILHOUSE

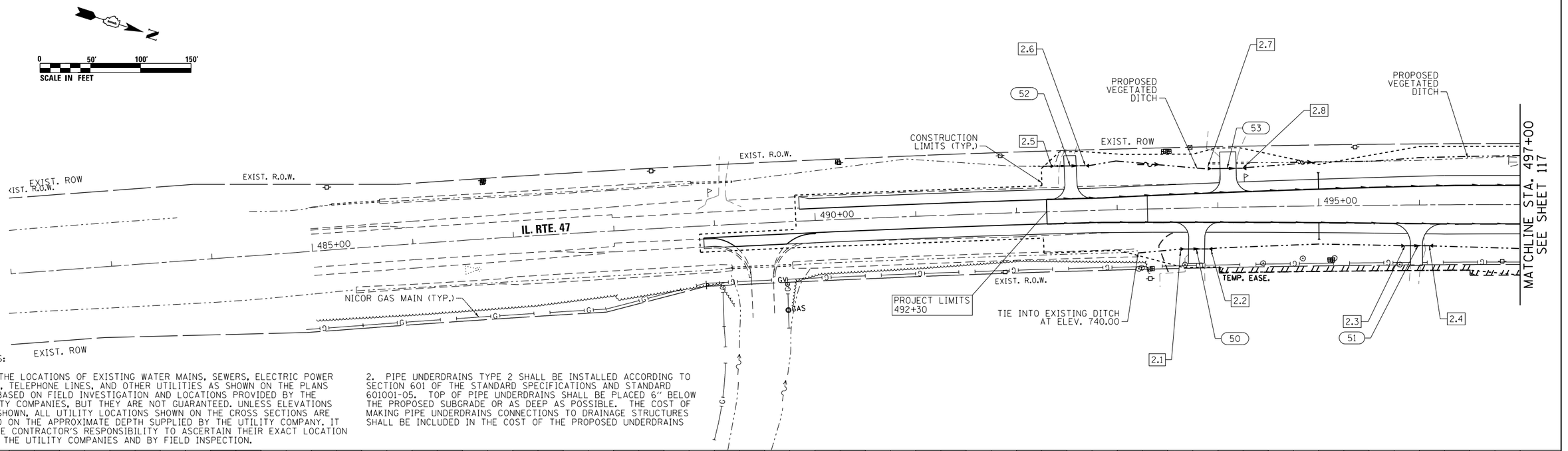
USER NAME = mlopez2	DESIGNED - CB	REVISED -
FILE NAME =	DRAWN - LB	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED - CB	REVISED -
PLOT DATE = 1/28/2019	DATE - 1/28/19	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE AND UTILITY REMOVAL

SCALE: 1"=50' | SHEET NO. 2 OF 2 SHEETS | STA. 192+10 TO STA. 210+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	107N-4	KANE	288	114
		CONTRACT NO. 60T21		
	ILLINOIS FED. AID PROJECT			



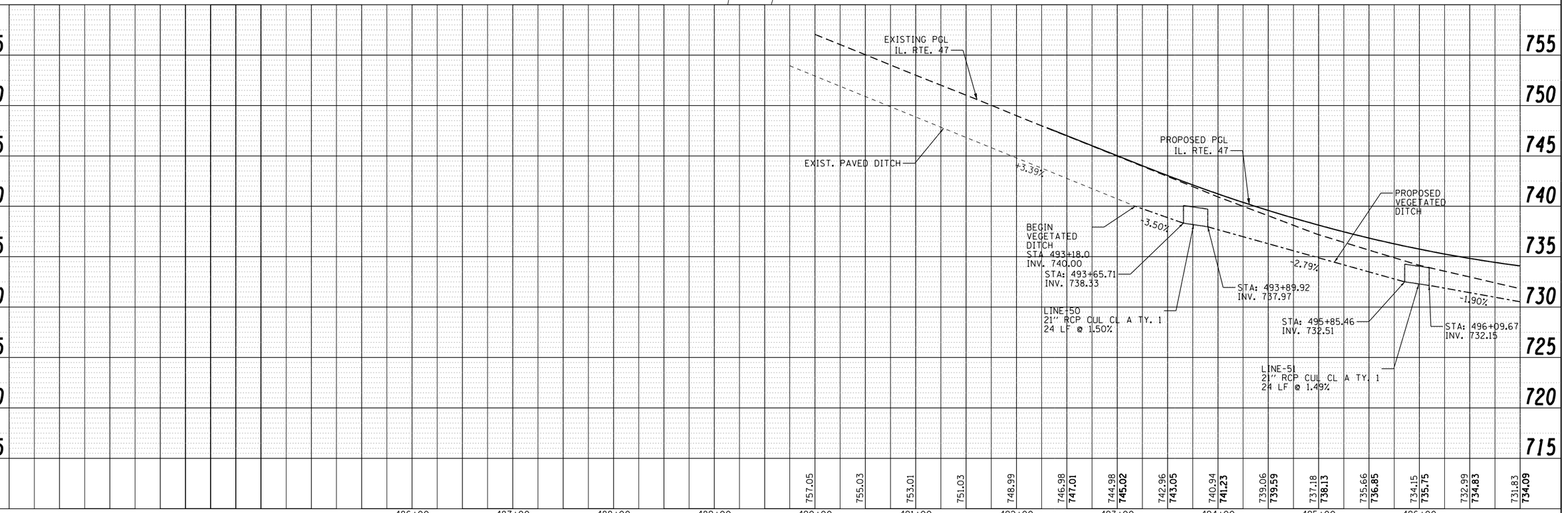
NOTES:

1. THE LOCATIONS OF EXISTING WATER MAINS, SEWERS, ELECTRIC POWER LINES, TELEPHONE LINES, AND OTHER UTILITIES AS SHOWN ON THE PLANS ARE BASED ON FIELD INVESTIGATION AND LOCATIONS PROVIDED BY THE UTILITY COMPANIES, BUT THEY ARE NOT GUARANTEED. UNLESS ELEVATIONS ARE SHOWN, ALL UTILITY LOCATIONS SHOWN ON THE CROSS SECTIONS ARE BASED ON THE APPROXIMATE DEPTH SUPPLIED BY THE UTILITY COMPANY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN THEIR EXACT LOCATION FROM THE UTILITY COMPANIES AND BY FIELD INSPECTION.

2. PIPE UNDERDRAINS TYPE 2 SHALL BE INSTALLED ACCORDING TO SECTION 601 OF THE STANDARD SPECIFICATIONS AND STANDARD 601001-05. TOP OF PIPE UNDERDRAINS SHALL BE PLACED 6" BELOW THE PROPOSED SUBGRADE OR AS DEEP AS POSSIBLE. THE COST OF MAKING PIPE UNDERDRAINS CONNECTIONS TO DRAINAGE STRUCTURES SHALL BE INCLUDED IN THE COST OF THE PROPOSED UNDERDRAINS

PLAN — BY | DATE | SURVEYED | PLOTTED | DESIGNED | CHECKED | DRAWN | CHECKED | RT. OF WAY CHECKED | CADD FILE NAME | NOTE BOOK | NO.

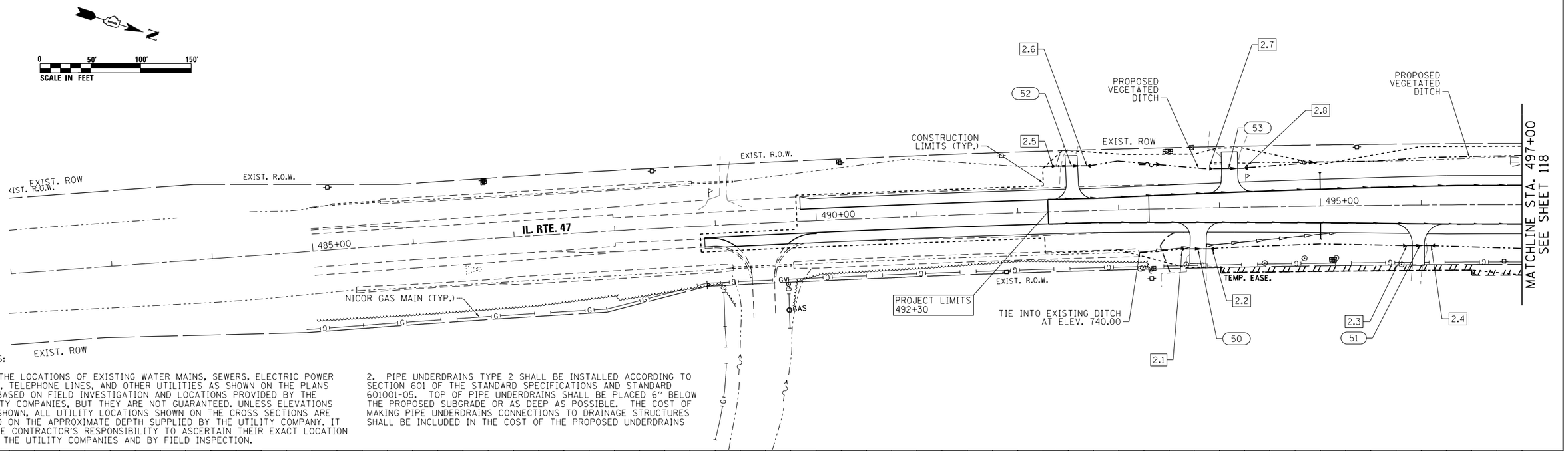
PROFILE — BY | DATE | SURVEYED | PLOTTED | DESIGNED | CHECKED | BM. NOTED | STRUCTURE NOTATNS CHKD | NOTE BOOK | NO.



PROFILE — BY | DATE | SURVEYED | PLOTTED | DESIGNED | CHECKED | BM. NOTED | STRUCTURE NOTATNS CHKD | NOTE BOOK | NO.

USER NAME = mlopez2	DESIGNED CB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
USER NAME =	DRAWN LB	REVISED -	IL RTE. 47 DRAINAGE PLAN & PROFILE – RIGHT SIDE
PLOT SCALE = 100.0000 ' / in.	CHECKED CB	REVISED -	SCALE: 1"=50' | SHEET NO. 1 OF 12 SHEETS | STA. 492+30.00 TO STA. 497+00.00
PLOT DATE = 1/28/2019	DATE 01/28/19	REVISED -	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	107N-4	KANE	288	115
		CONTRACT NO. 60T21		
	ILLINOIS FED. AID PROJECT			



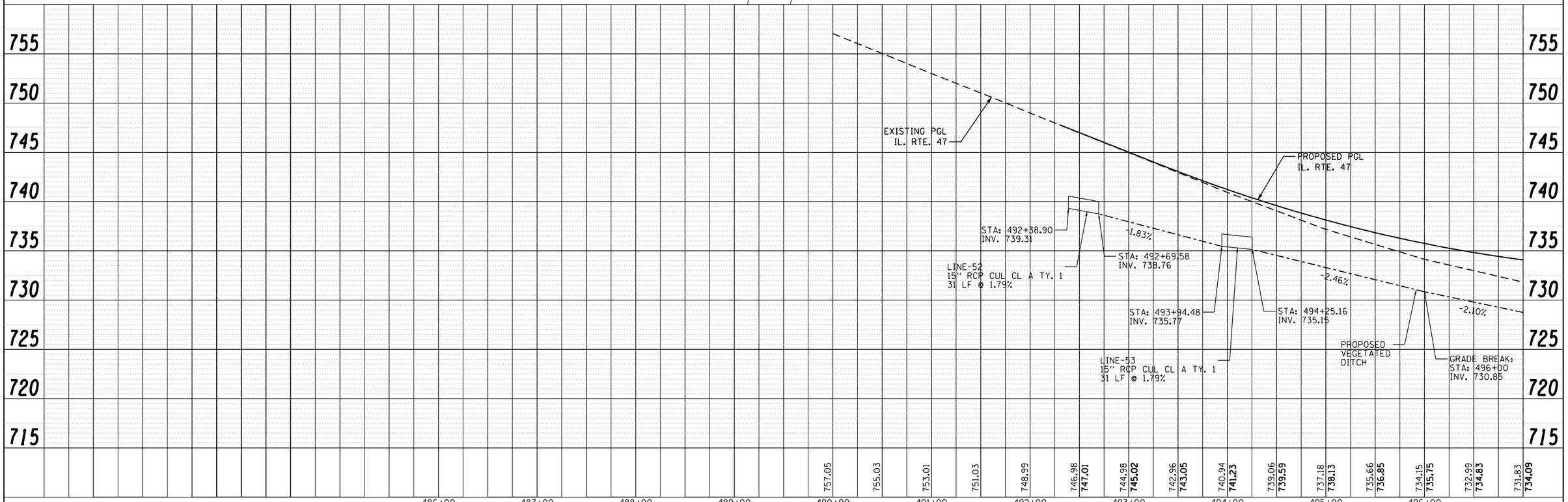
NOTES:

1. THE LOCATIONS OF EXISTING WATER MAINS, SEWERS, ELECTRIC POWER LINES, TELEPHONE LINES, AND OTHER UTILITIES AS SHOWN ON THE PLANS ARE BASED ON FIELD INVESTIGATION AND LOCATIONS PROVIDED BY THE UTILITY COMPANIES, BUT THEY ARE NOT GUARANTEED. UNLESS ELEVATIONS ARE SHOWN, ALL UTILITY LOCATIONS SHOWN ON THE CROSS SECTIONS ARE BASED ON THE APPROXIMATE DEPTH SUPPLIED BY THE UTILITY COMPANY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN THEIR EXACT LOCATION FROM THE UTILITY COMPANIES AND BY FIELD INSPECTION.

2. PIPE UNDERDRAINS TYPE 2 SHALL BE INSTALLED ACCORDING TO SECTION 601 OF THE STANDARD SPECIFICATIONS AND STANDARD 601001-05. TOP OF PIPE UNDERDRAINS SHALL BE PLACED 6" BELOW THE PROPOSED SUBGRADE OR AS DEEP AS POSSIBLE. THE COST OF MAKING PIPE UNDERDRAINS CONNECTIONS TO DRAINAGE STRUCTURES SHALL BE INCLUDED IN THE COST OF THE PROPOSED UNDERDRAINS

PLAN — BY | DATE | SURVEYED | PLOTTED | DRAWN | CHECKED | ALIGNMENT CHECKED | RT. OF WAY CHECKED | CADD FILE NAME | NOTE BOOK | NO.

PROFILE — BY | DATE | SURVEYED | PLOTTED | DRAWN | CHECKED | BM. NOTED | STRUCTURE NO'ATNS CHKD | NOTE BOOK | NO.



HILHOUSE	USER NAME = mlopez2	DESIGNED CB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL RTE. 47 DRAINAGE PLAN & PROFILE – LEFT SIDE
	USER NAME =	DRAWN LB	REVISED -		SCALE: 1"=50' | SHEET NO. 2 OF 12 SHEETS | STA. 492+30.00 TO STA. 497+00.00
	PLOT SCALE = 100.0000 ' / in.	CHECKED CB	REVISED -		
	PLOT DATE = 1/28/2019	DATE 01/28/19	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	107N-4	KANE	288	116
		CONTRACT NO. 60T21		
	ILLINOIS FED. AID PROJECT			

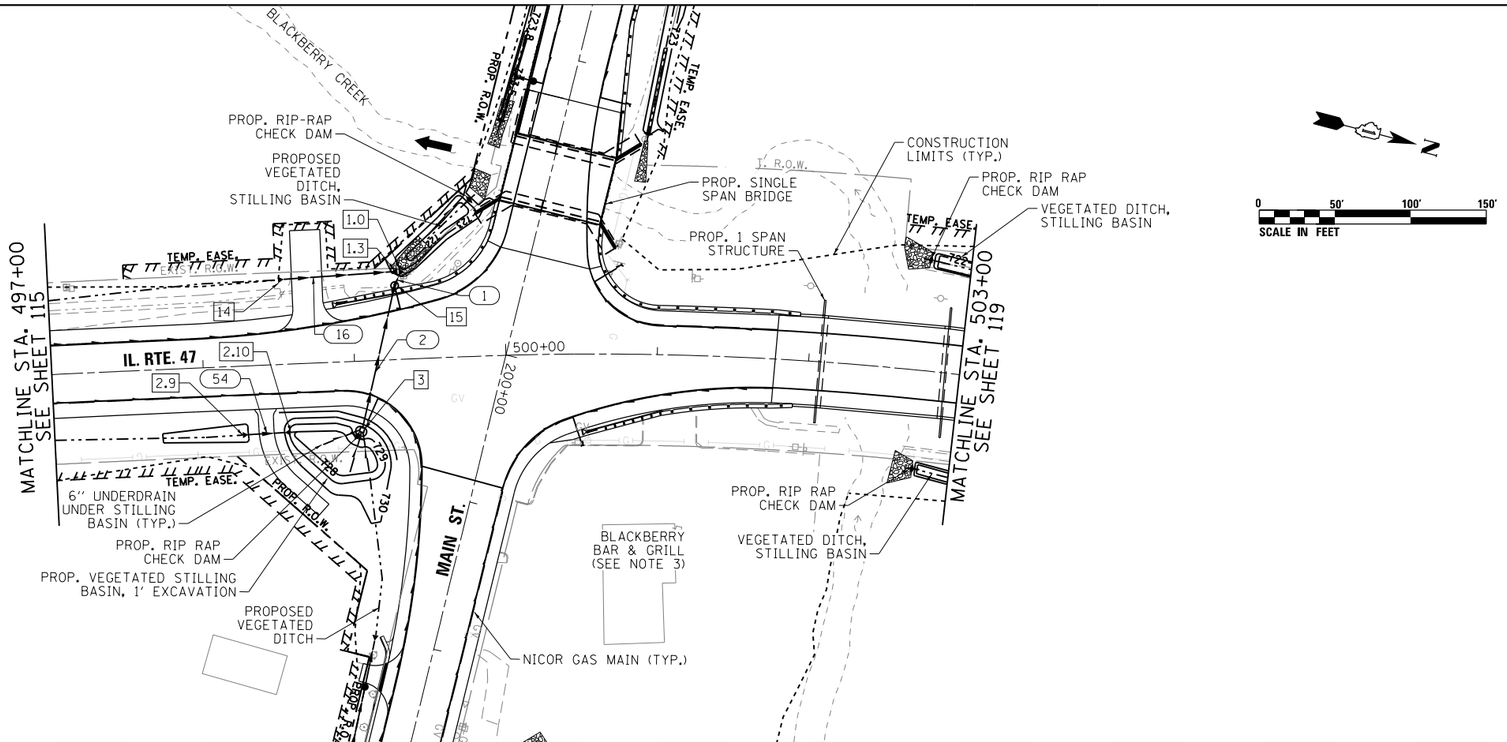
NOTES:

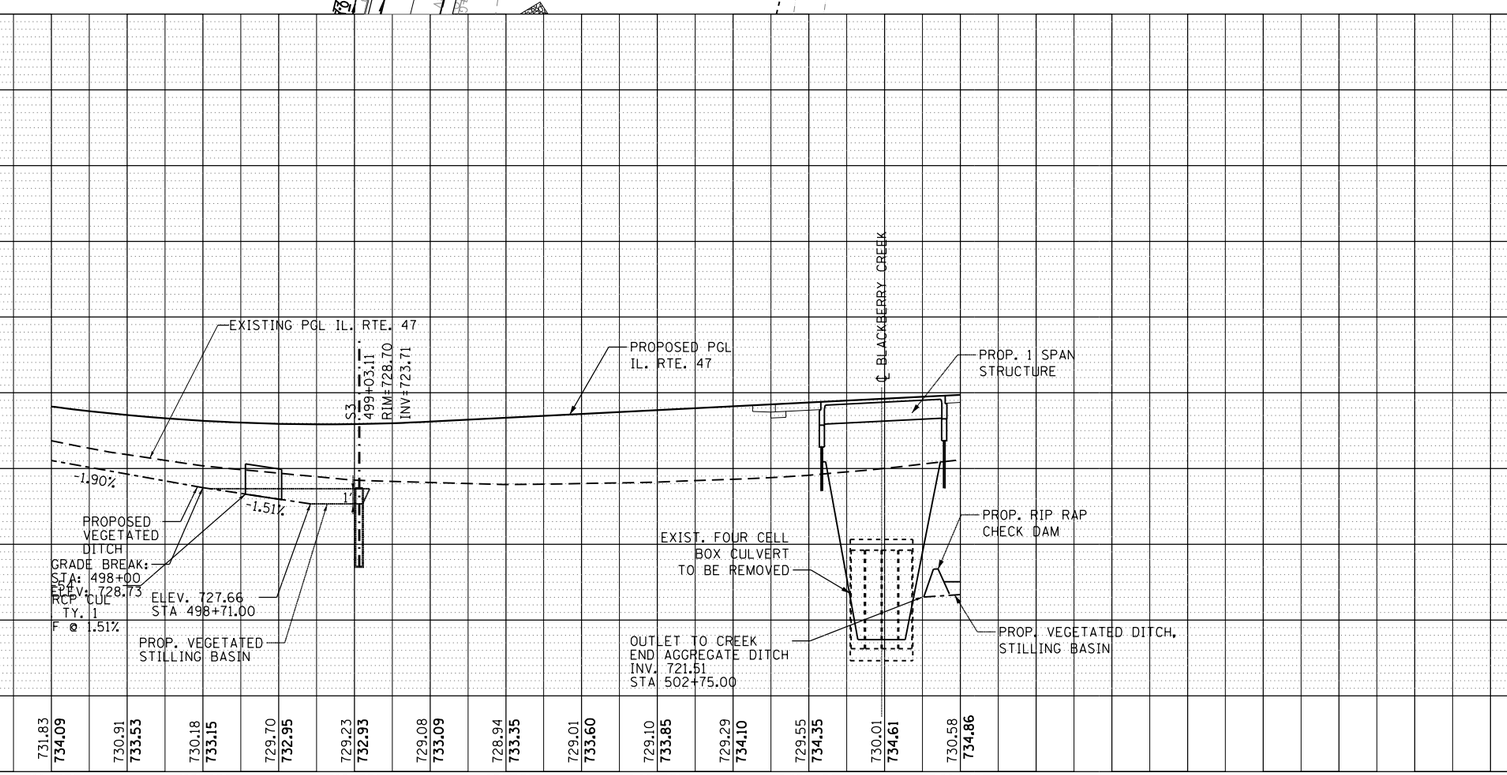
1. FOR IL ROUTE 47 STRUCTURE AND MAIN STREET DETAILED INFORMATION, SEE STRUCTURAL SHEETS.

2. THE LOCATIONS OF EXISTING WATER MAINS, SEWERS, ELECTRIC POWER LINES, TELEPHONE LINES, AND OTHER UTILITIES AS SHOWN ON THE PLANS ARE BASED ON FIELD INVESTIGATION AND LOCATIONS PROVIDED BY THE UTILITY COMPANIES, BUT THEY ARE NOT GUARANTEED. UNLESS ELEVATIONS ARE SHOWN, ALL UTILITY LOCATIONS SHOWN ON THE CROSS SECTIONS ARE BASED ON THE APPROXIMATE DEPTH SUPPLIED BY THE UTILITY COMPANY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN THEIR EXACT LOCATION FROM THE UTILITY COMPANIES AND BY FIELD INSPECTION.

3. BLACKBERRY BAR & GRILL SITE TO BE DEMOLISHED AND EXCAVATED FOR COMPENSATORY STORAGE.

4. PIPE UNDERDRAINS TYPE 2 SHALL BE INSTALLED ACCORDING TO SECTION 601 OF THE STANDARD SPECIFICATIONS AND STANDARD 601001-05. TOP OF PIPE UNDERDRAINS SHALL BE PLACED 6" BELOW THE PROPOSED SUBGRADE OR AS DEEP AS POSSIBLE. THE COST OF MAKING PIPE UNDERDRAINS CONNECTIONS TO DRAINAGE STRUCTURES SHALL BE INCLUDED IN THE COST OF THE PROPOSED UNDERDRAINS





PLAN — SURVEYED / PLOTTED / ALIGNMENT CHECKED / ALL R.O.W. CHECKED / CADD FILE NAME / NOTE BOOK / NO. / BY / DATE

PROFILE — SURVEYED / PLOTTED / GRADE CHECKED / ALL NOTED STRUCTURE NOTATIONS CHKD / NOTE BOOK / NO. / BY / DATE

MILHOUSE

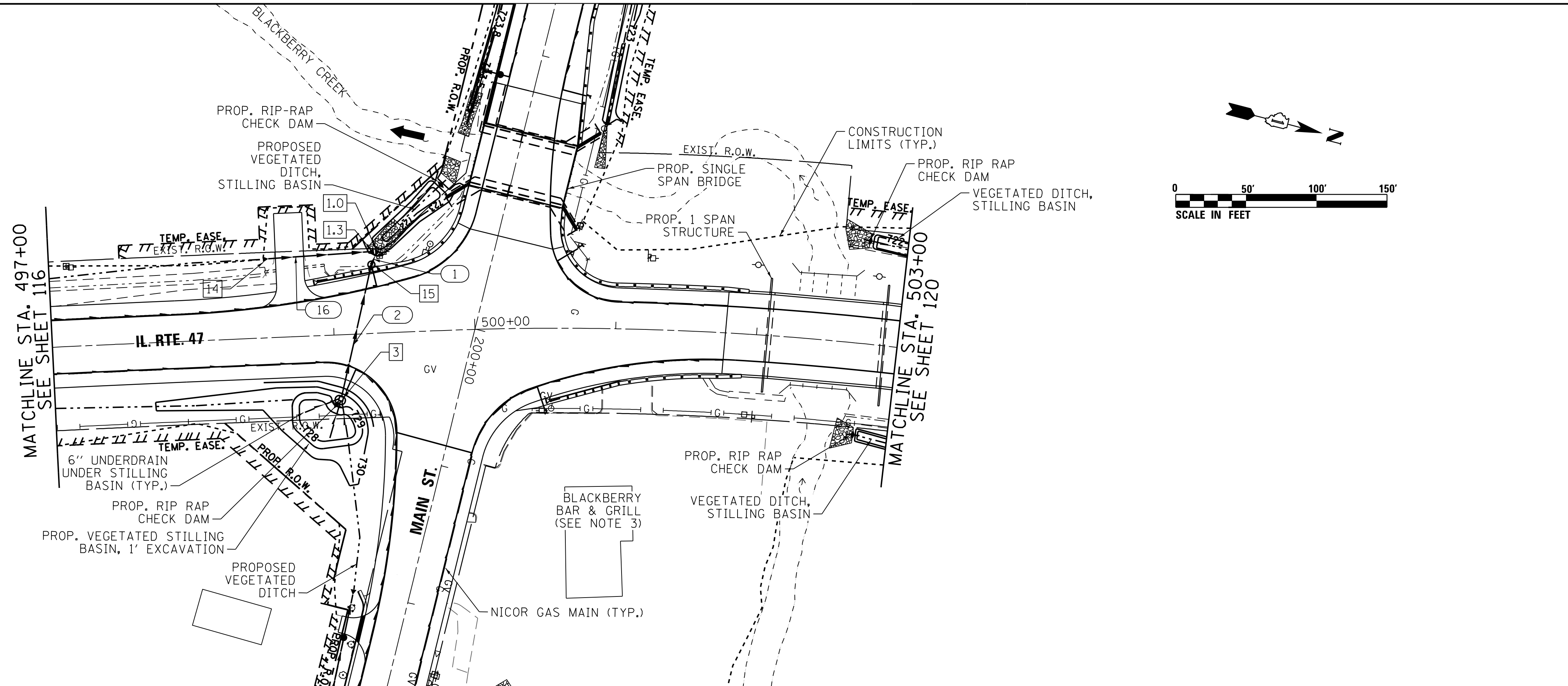
USER NAME = yayyoub	DESIGNED CB	REVISED -	
USER NAME =	DRAWN LB	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED CB	REVISED -	
PLOT DATE = 3/6/2019	DATE 01/28/19	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL RTE. 47
DRAINAGE PLAN & PROFILE – RIGHT SIDE

SCALE: 1"=50' | SHEET NO. 3 OF 12 SHEETS | STA. 497+00.00 TO STA. 503+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	107N-4	KANE	288	117
		CONTRACT NO. 60T21		
	ILLINOIS FED. AID PROJECT			



NOTES:

1. FOR IL ROUTE 47 STRUCTURE AND MAIN STREET DETAILED INFORMATION, SEE STRUCTURAL SHEETS.

2. THE LOCATIONS OF EXISTING WATER MAINS, SEWERS, ELECTRIC POWER LINES, TELEPHONE LINES, AND OTHER UTILITIES AS SHOWN ON THE PLANS ARE BASED ON FIELD INVESTIGATION AND LOCATIONS PROVIDED BY THE UTILITY COMPANIES, BUT THEY ARE NOT GUARANTEED. UNLESS ELEVATIONS ARE SHOWN, ALL UTILITY LOCATIONS SHOWN ON THE CROSS SECTIONS ARE BASED ON THE APPROXIMATE DEPTH SUPPLIED BY THE UTILITY COMPANY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN THEIR EXACT LOCATION FROM THE UTILITY COMPANIES AND BY FIELD INSPECTION.

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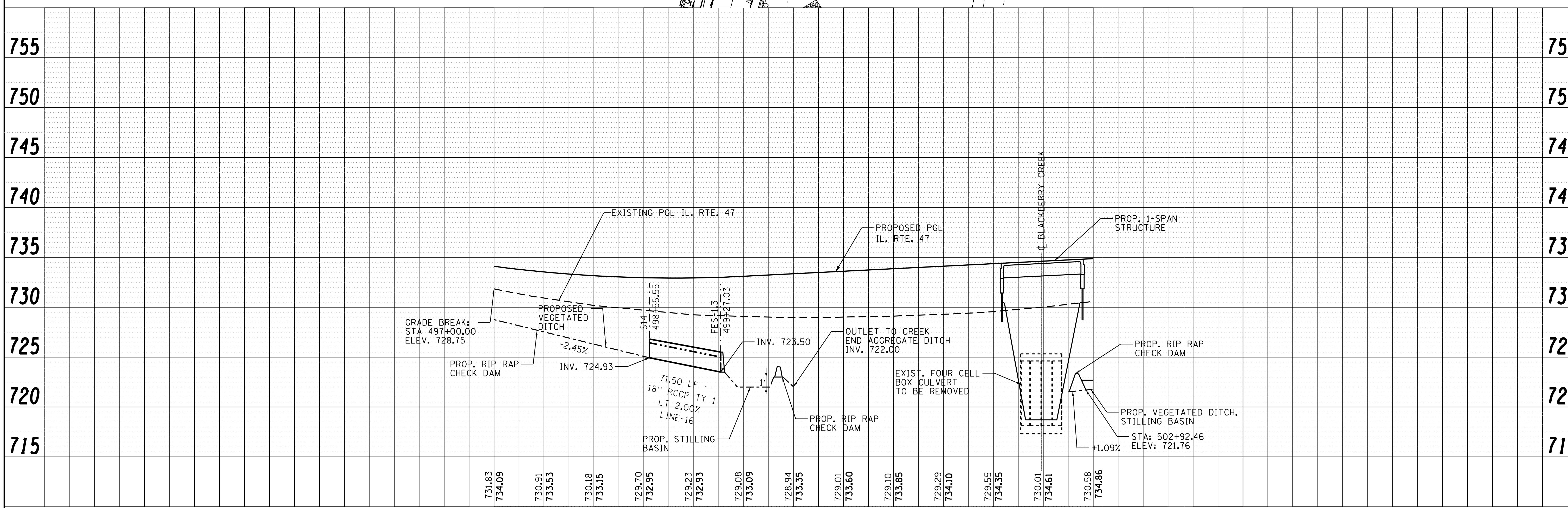
PLAN — NOTE BOOK NO. — SURVEYED / PLOTTED / ALIGNMENT CHECKED / RT. OF WAY CHECKED / CADD FILE NAME — BY — DATE



PROFILE — NOTE BOOK NO. — SURVEYED / PLOTTED / GRADES CHECKED / B.M. NOTED / STRUCTURE NOTAT'NS CH'KD — BY — DATE

MILHOUSE

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USER NAME =	DRAWN	LB	REVISED	-
PLOT SCALE = 100.0000 ' / in.	CHECKED	CB	REVISED	-
PLOT DATE = 1/28/2019	DATE	01/28/19	REVISED	-

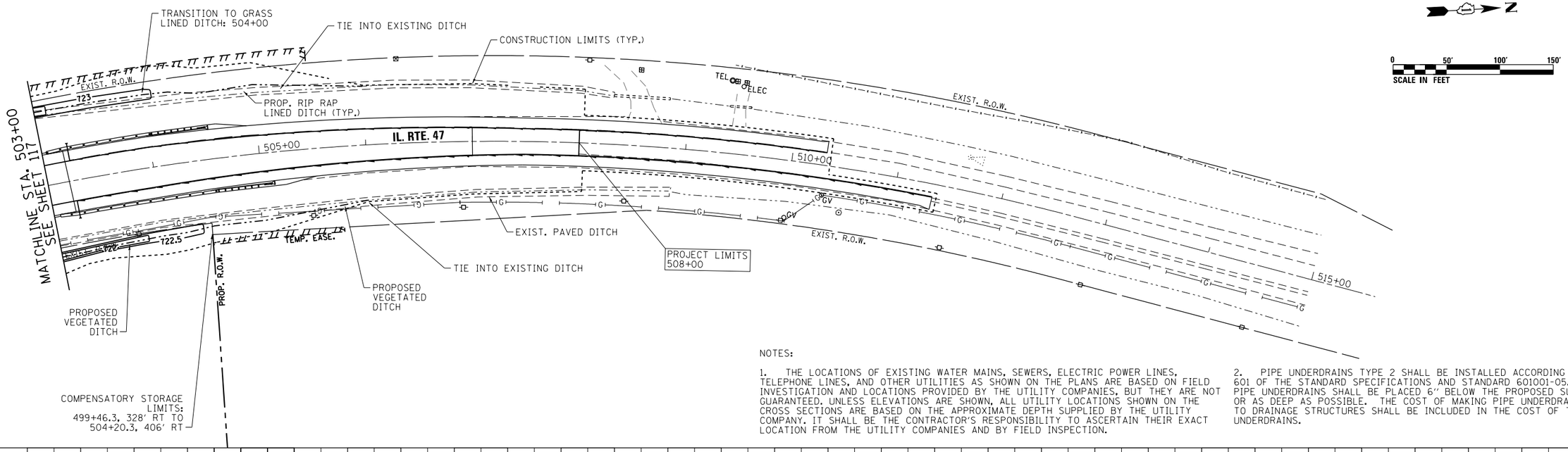
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL RTE. 47
DRAINAGE PLAN & PROFILE - LEFT SIDE

SCALE: 1''=50' | SHEET NO. 4 OF 12 SHEETS | STA. 497+00.00 TO STA. 503+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	107N-4	KANE	288	118
		CONTRACT NO. 60T21		

ILLINOIS FED. AID PROJECT



NOTES:

1. THE LOCATIONS OF EXISTING WATER MAINS, SEWERS, ELECTRIC POWER LINES, TELEPHONE LINES, AND OTHER UTILITIES AS SHOWN ON THE PLANS ARE BASED ON FIELD INVESTIGATION AND LOCATIONS PROVIDED BY THE UTILITY COMPANIES, BUT THEY ARE NOT GUARANTEED. UNLESS ELEVATIONS ARE SHOWN, ALL UTILITY LOCATIONS SHOWN ON THE CROSS SECTIONS ARE BASED ON THE APPROXIMATE DEPTH SUPPLIED BY THE UTILITY COMPANY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN THEIR EXACT LOCATION FROM THE UTILITY COMPANIES AND BY FIELD INSPECTION.

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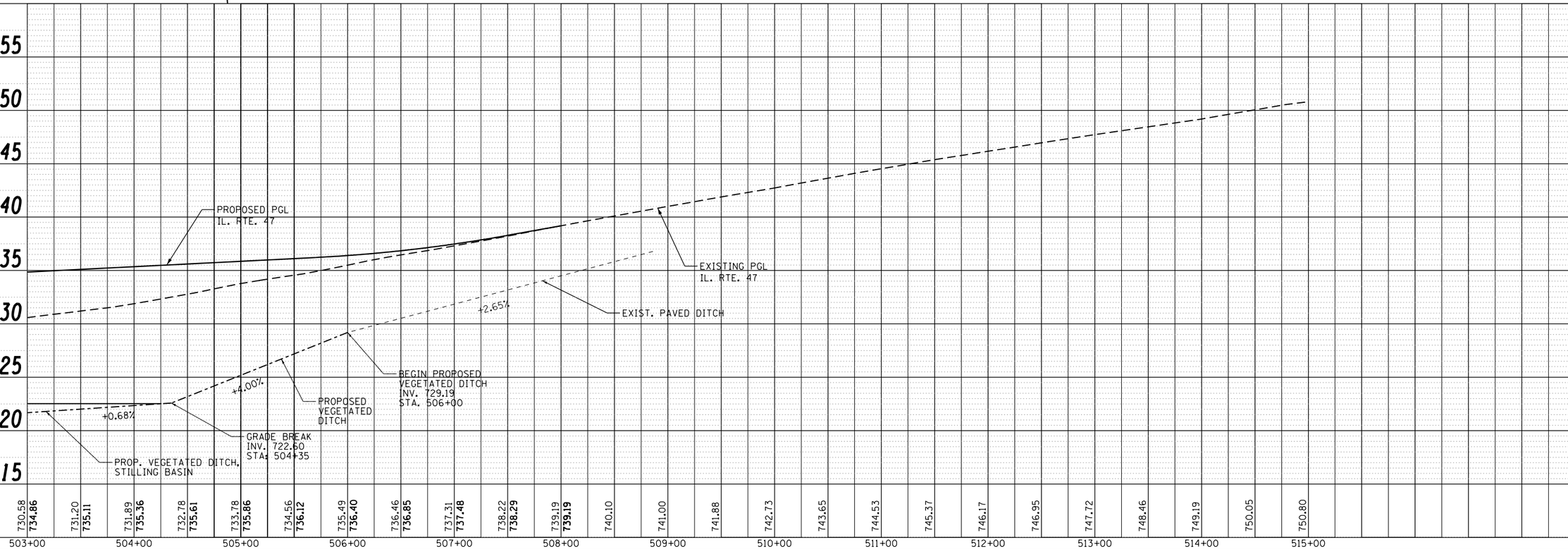


PLAN: SURVEYED — PLOTTED — ALIGNMENT CHECKED — RT. OF WAY CHECKED — CADD FILE NAME — NOTE BOOK — NO. — BY — DATE

PROFILE: SURVEYED — PLOTTED — PROFILE CHECKED — BM. NOTED — STRUCTURE NO(ATN'S CHKD — NOTE BOOK — NO. — BY — DATE

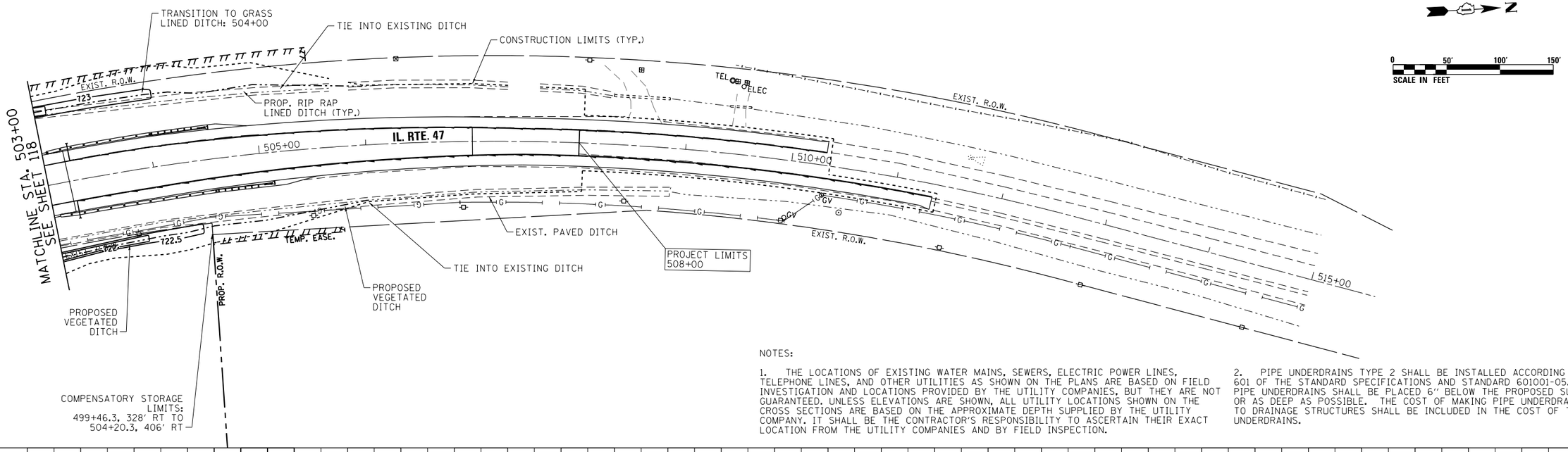
USER NAME = mlopez2	DESIGNED CB	REVISED -	
USER NAME =	DRAWN LB	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED CB	REVISED -	
PLOT DATE = 1/28/2019	DATE 01/28/19	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL. RTE. 47
DRAINAGE PLAN AND PROFILE – RIGHT SIDE

SCALE: 1"=50' | SHEET NO. 5 OF 12 SHEETS | STA. 503+00.00 TO STA. 508+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	107N-4	KANE	288	119
		CONTRACT NO. 60T21		
	ILLINOIS FED. AID PROJECT			



NOTES:

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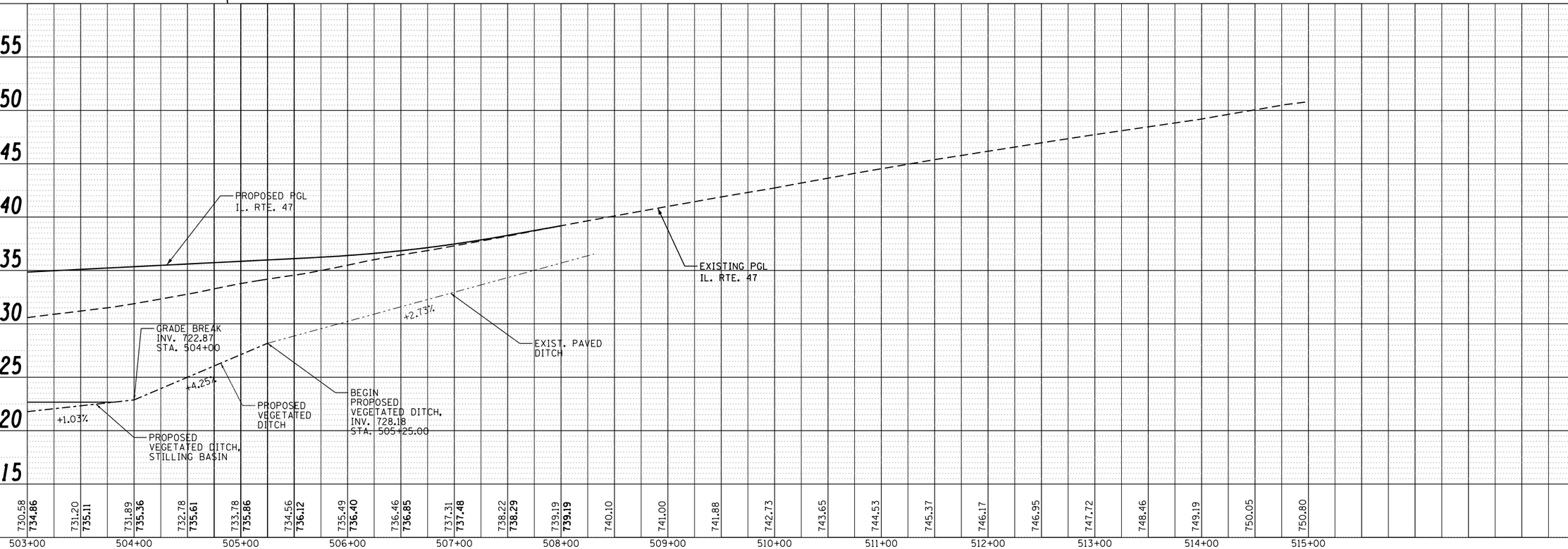
PLAN — SURVEYED | PLOTTED | ALIGNMENT CHECKED | RT. OF WAY CHECKED | CADD FILE NAME | NOTE BOOK | NO. | BY | DATE

PROFILE — SURVEYED | PLOTTED | PROFILE CHECKED | BM. NOTED | STRUCTURE NO'ATNS CHKD | NOTE BOOK | NO. | BY | DATE



USER NAME = mlopez2	DESIGNED CB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
USER NAME =	DRAWN LB	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED CB	REVISED -	
PLOT DATE = 1/28/2019	DATE 01/28/19	REVISED -	

IL. RTE. 47
DRAINAGE PLAN AND PROFILE – LEFT SIDE

SCALE: 1"=50' | SHEET NO. 6 OF 12 SHEETS | STA. 503+00.00 TO STA. 508+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	107N-4	KANE	288	120

CONTRACT NO. 60T21

ILLINOIS FED. AID PROJECT

NOTES:

1. THE LOCATIONS OF EXISTING WATER MAINS, SEWERS, ELECTRIC POWER LINES, TELEPHONE LINES, AND OTHER UTILITIES AS SHOWN ON THE PLANS ARE BASED ON FIELD INVESTIGATION AND LOCATIONS PROVIDED BY THE UTILITY COMPANIES, BUT THEY ARE NOT GUARANTEED. UNLESS ELEVATIONS ARE SHOWN, ALL UTILITY LOCATIONS SHOWN ON THE CROSS SECTIONS ARE BASED ON THE APPROXIMATE DEPTH SUPPLIED BY THE UTILITY COMPANY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN THEIR EXACT LOCATION FROM THE UTILITY COMPANIES AND BY FIELD INSPECTION.

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PLAN
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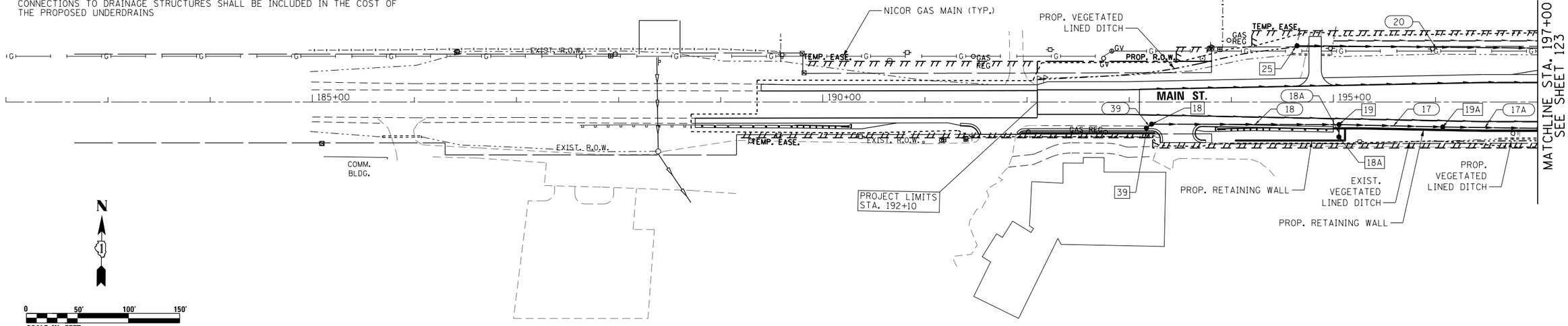
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE



PROFILE
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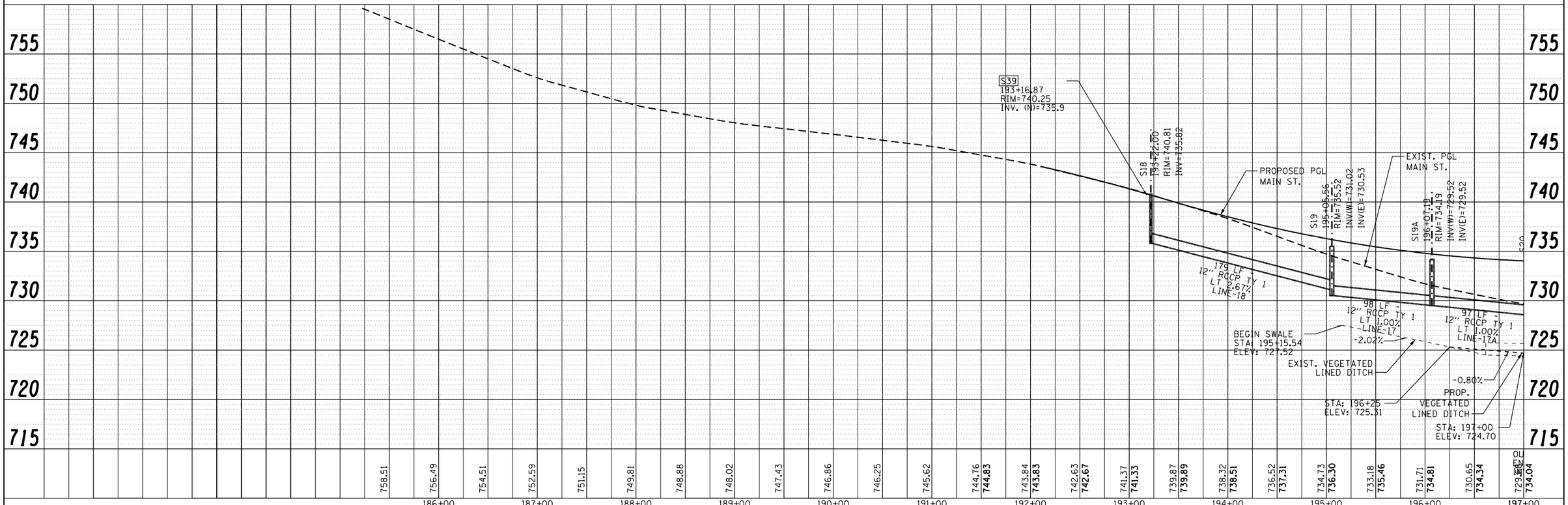
BAK. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.
BY
DATE



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USER NAME =	DRAWN	LB	REVISED	-	
PLOT SCALE = 100.0000 ' / in.	CHECKED	CB	REVISED	-	
PLOT DATE = 1/28/2019	DATE	01/28/19	REVISED	-	

HILLHOUSE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAIN ST.
DRAINAGE PLAN & PROFILE – RIGHT SIDE

SCALE: 1"=50' | SHEET NO. 7 OF 12 SHEETS | STA. 192+10.00 TO STA. 197+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	107N-4	KANE	288	121
		CONTRACT NO. 60T21		
	ILLINOIS FED. AID PROJECT			

NOTES:

1. THE LOCATIONS OF EXISTING WATER MAINS, SEWERS, ELECTRIC POWER LINES, TELEPHONE LINES, AND OTHER UTILITIES AS SHOWN ON THE PLANS ARE BASED ON FIELD INVESTIGATION AND LOCATIONS PROVIDED BY THE UTILITY COMPANIES, BUT THEY ARE NOT GUARANTEED. UNLESS ELEVATIONS ARE SHOWN, ALL UTILITY LOCATIONS SHOWN ON THE CROSS SECTIONS ARE BASED ON THE APPROXIMATE DEPTH SUPPLIED BY THE UTILITY COMPANY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN THEIR EXACT LOCATION FROM THE UTILITY COMPANIES AND BY FIELD INSPECTION.

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PLAN
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ALIGNMENT CHECKED
RT. OF WAY CHECKED
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NOTE BOOK
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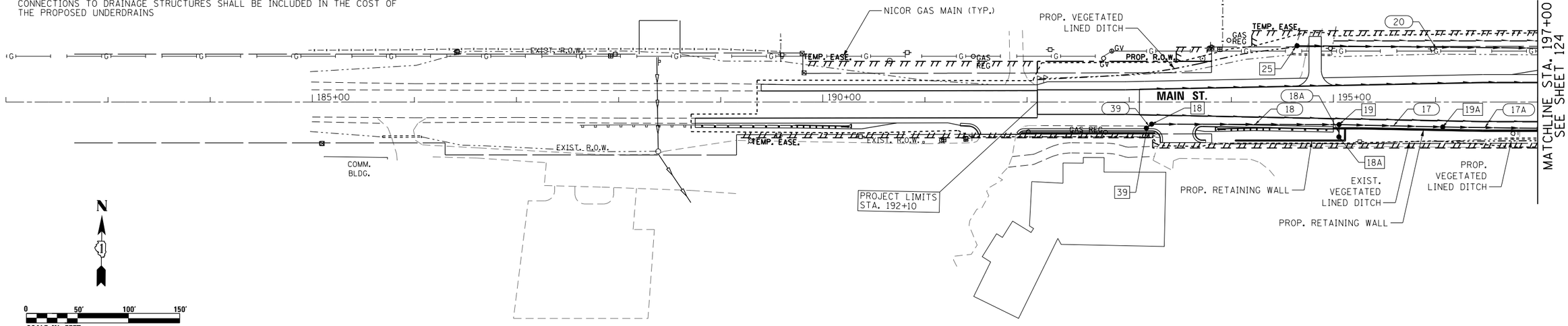

N

0 50' 100' 150'
SCALE IN FEET

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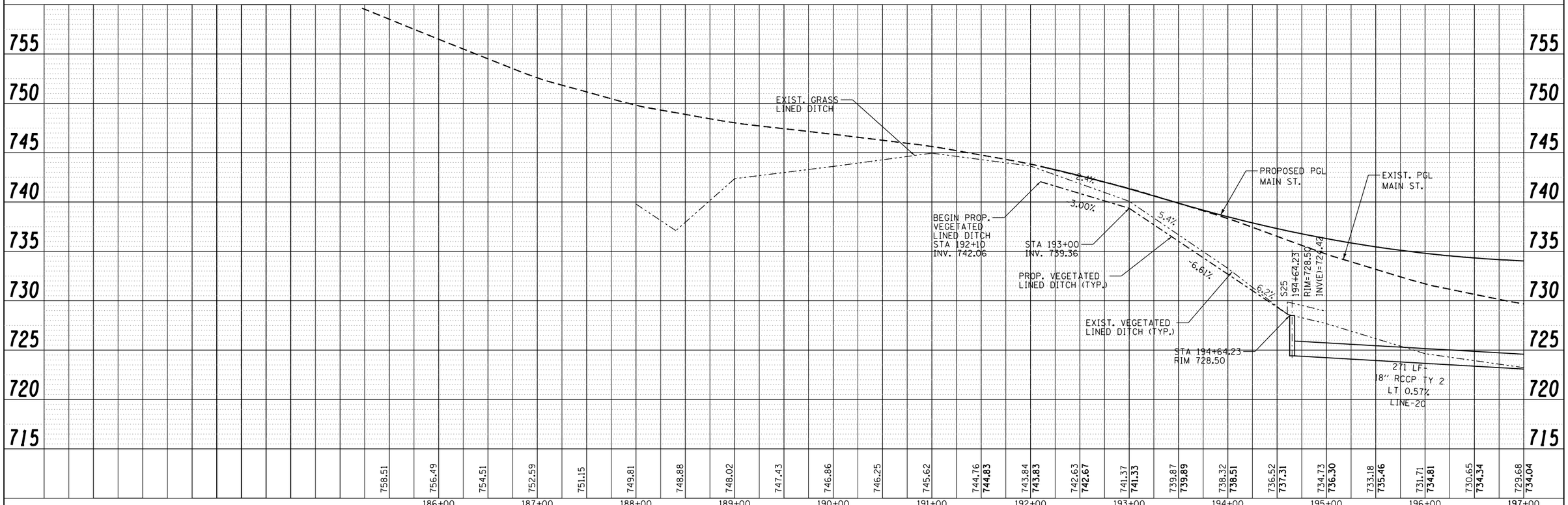
CHECKED
BM. NOTED
STRUCTURE NO'ATNS CHKD
NOTE BOOK
NO.



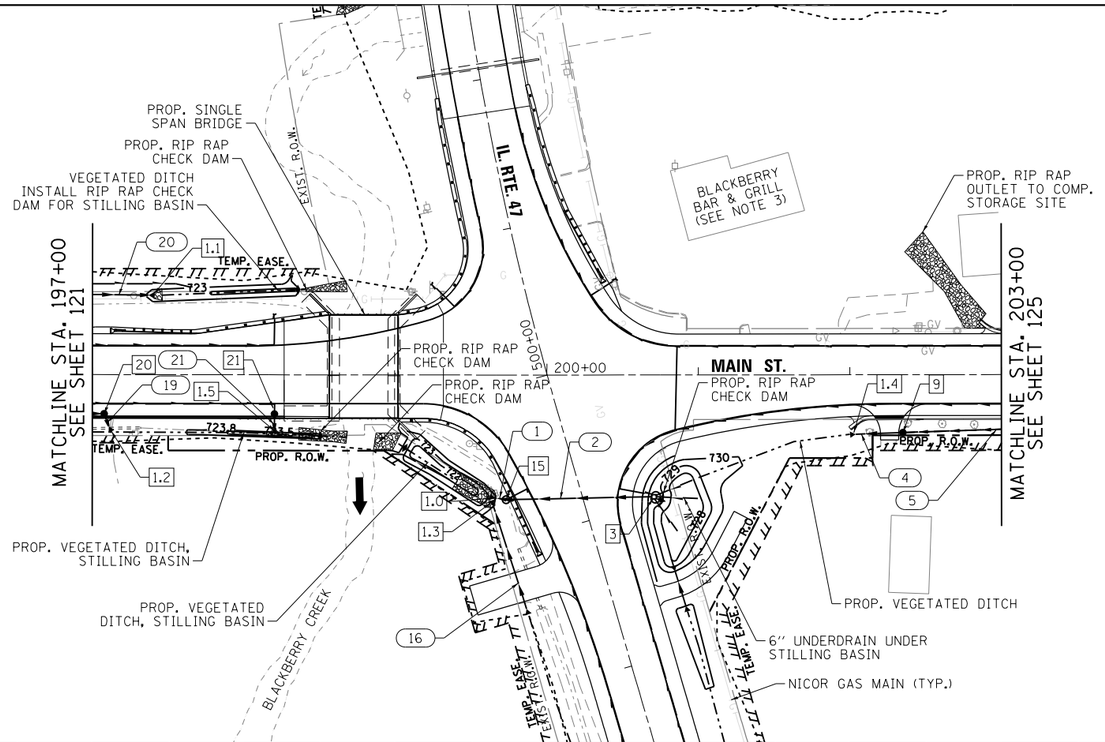
USER NAME = mlopez2	DESIGNED CB	REVISED -	STATE OF ILLINOIS
USER NAME =	DRAWN LB	REVISED -	DEPARTMENT OF TRANSPORTATION
PLOT SCALE = 100.0000 ' / in.	CHECKED CB	REVISED -	
PLOT DATE = 1/28/2019	DATE 01/28/19	REVISED -	

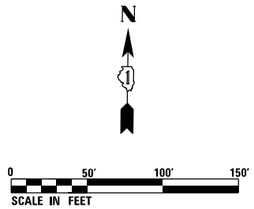
MAIN ST.
DRAINAGE PLAN & PROFILE – LEFT SIDE

SCALE: 1"=50' | SHEET NO. 8 OF 12 SHEETS | STA. 192+10.00 TO STA. 197+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	107N-4	KANE	288	122
		CONTRACT NO. 60T21		
	ILLINOIS FED. AID PROJECT			

PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE





NOTES:

1. FOR IL ROUTE 47 STRUCTURE AND MAIN STREET DETAILED INFORMATION, SEE STRUCTURAL SHEETS.

2. THE LOCATIONS OF EXISTING WATER MAINS, SEWERS, ELECTRIC POWER LINES, TELEPHONE LINES, AND OTHER UTILITIES AS SHOWN ON THE PLANS ARE BASED ON FIELD INVESTIGATION AND LOCATIONS PROVIDED BY THE UTILITY COMPANIES, BUT THEY ARE NOT GUARANTEED. UNLESS ELEVATIONS ARE SHOWN, ALL UTILITY LOCATIONS SHOWN ON THE CROSS SECTIONS ARE BASED ON THE APPROXIMATE DEPTH SUPPLIED BY THE UTILITY COMPANY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN THEIR EXACT LOCATION FROM THE UTILITY COMPANIES AND BY FIELD INSPECTION.

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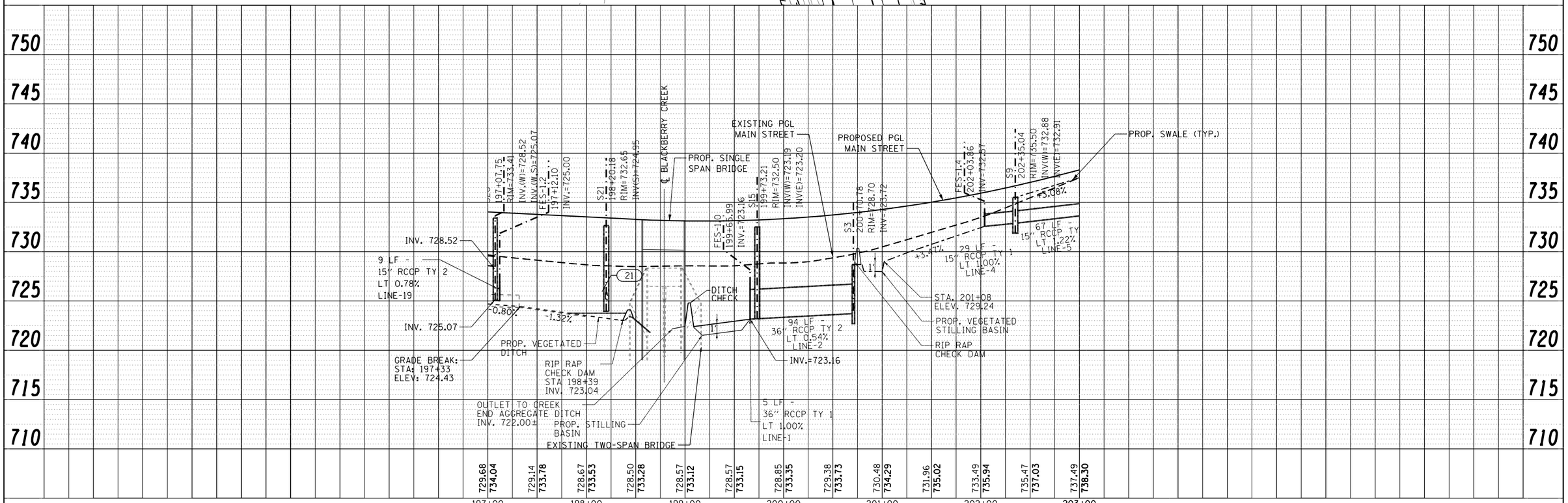
PROFILE
SURVEYED
PLOTTED
CROSS CHECKED
BM: NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.
BY
DATE



USER NAME = yayoub	DESIGNED	CB	REVISED	-	
USER NAME =	DRAWN	LB	REVISED	-	
PLOT SCALE = 100.0000 ' / in.	CHECKED	CB	REVISED	-	
PLOT DATE = 3/6/2019	DATE	01/28/19	REVISED	-	

HILLHOUSE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

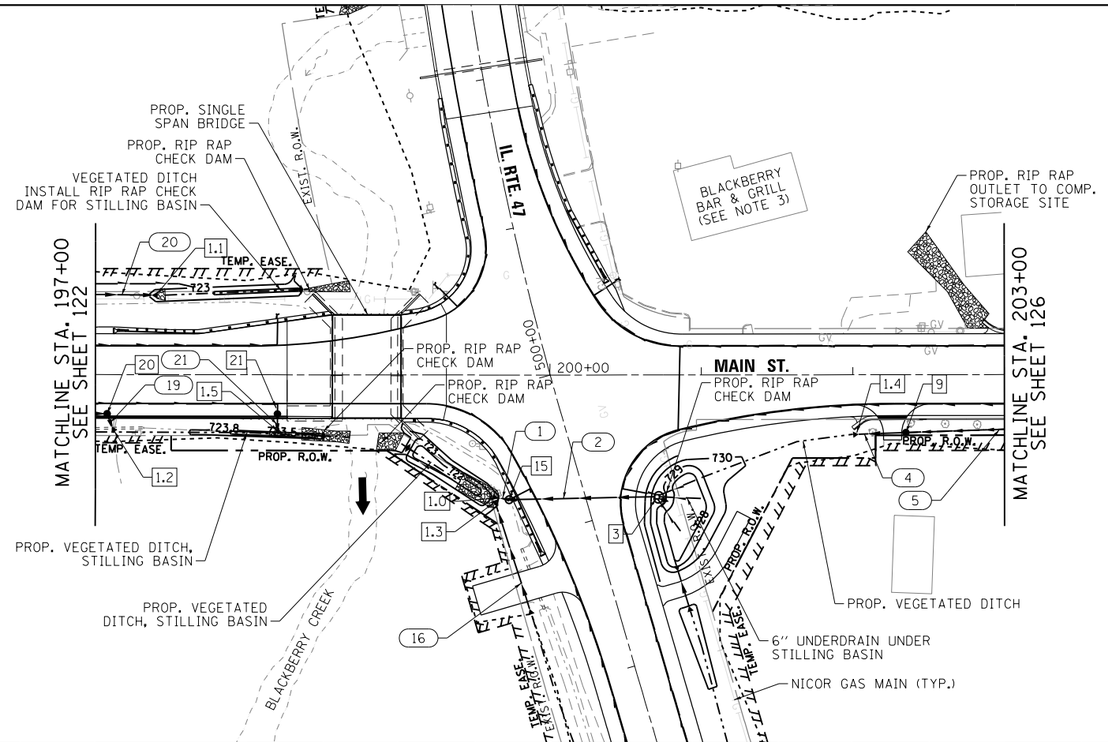
MAIN ST.
DRAINAGE PLAN & PROFILE – RIGHT SIDE

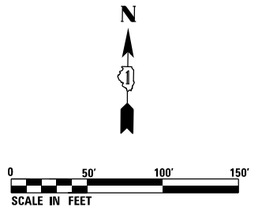
SCALE: 1"=50' | SHEET NO. 9 OF 12 SHEETS | STA. 197+00.00 TO STA. 203+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	107N-4	KANE	288	123
		CONTRACT NO. 60T21		
	ILLINOIS FED. AID PROJECT			

PLAN
SURVEYED
PLOTTED
CROSS CHECKED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
CROSS CHECKED
BM. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.
BY
DATE





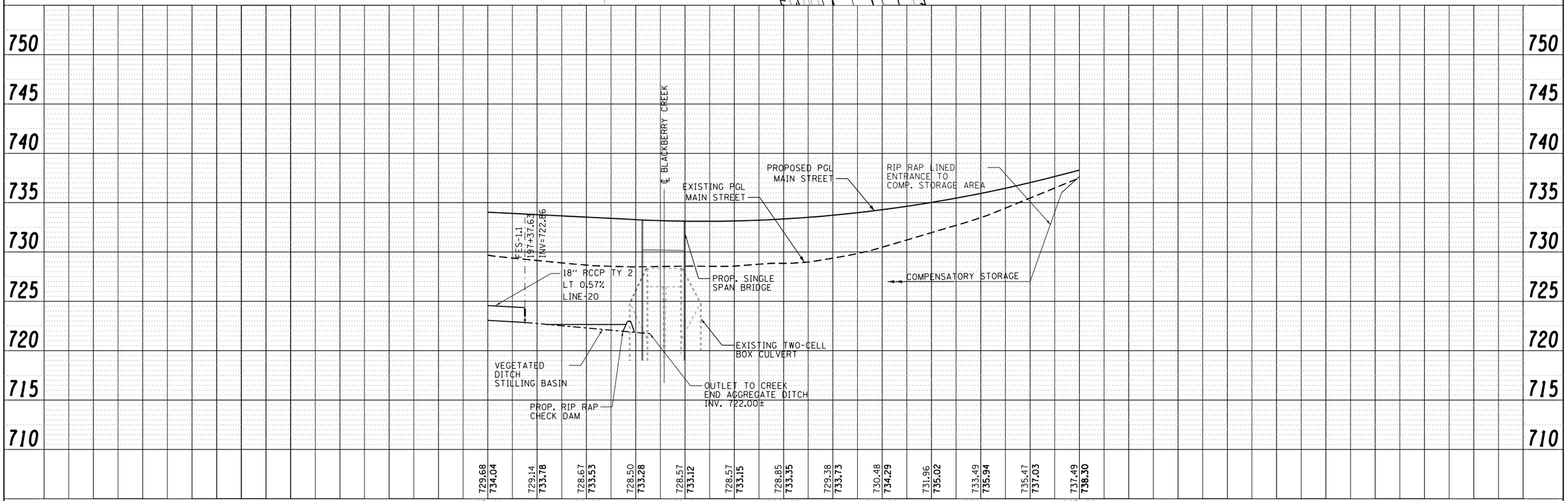
NOTES:

1. FOR IL ROUTE 47 STRUCTURE AND MAIN STREET DETAILED INFORMATION, SEE STRUCTURAL SHEETS.

2. THE LOCATIONS OF EXISTING WATER MAINS, SEWERS, ELECTRIC POWER LINES, TELEPHONE LINES, AND OTHER UTILITIES AS SHOWN ON THE PLANS ARE BASED ON FIELD INVESTIGATION AND LOCATIONS PROVIDED BY THE UTILITY COMPANIES, BUT THEY ARE NOT GUARANTEED. UNLESS ELEVATIONS ARE SHOWN, ALL UTILITY LOCATIONS SHOWN ON THE CROSS SECTIONS ARE BASED ON THE APPROXIMATE DEPTH SUPPLIED BY THE UTILITY COMPANY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN THEIR EXACT LOCATION FROM THE UTILITY COMPANIES AND BY FIELD INSPECTION.

3. BLACKBERRY BAR & GRILL SITE TO BE DEMOLISHED AND EXCAVATED FOR COMPENSATORY STORAGE.

4. PIPE UNDERDRAINS TYPE 2 SHALL BE INSTALLED ACCORDING TO SECTION 601 OF THE STANDARD SPECIFICATIONS AND STANDARD 601001-05. TOP OF PIPE UNDERDRAINS SHALL BE PLACED 6" BELOW THE PROPOSED SUBGRADE OR AS DEEP AS POSSIBLE. THE COST OF MAKING PIPE UNDERDRAINS CONNECTIONS TO DRAINAGE STRUCTURES SHALL BE INCLUDED IN THE COST OF THE PROPOSED UNDERDRAINS



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USER NAME =	DRAWN	LB	REVISED	-	
PLOT SCALE = 100.0000 ' / in.	CHECKED	CB	REVISED	-	
PLOT DATE = 3/6/2019	DATE	01/28/19	REVISED	-	

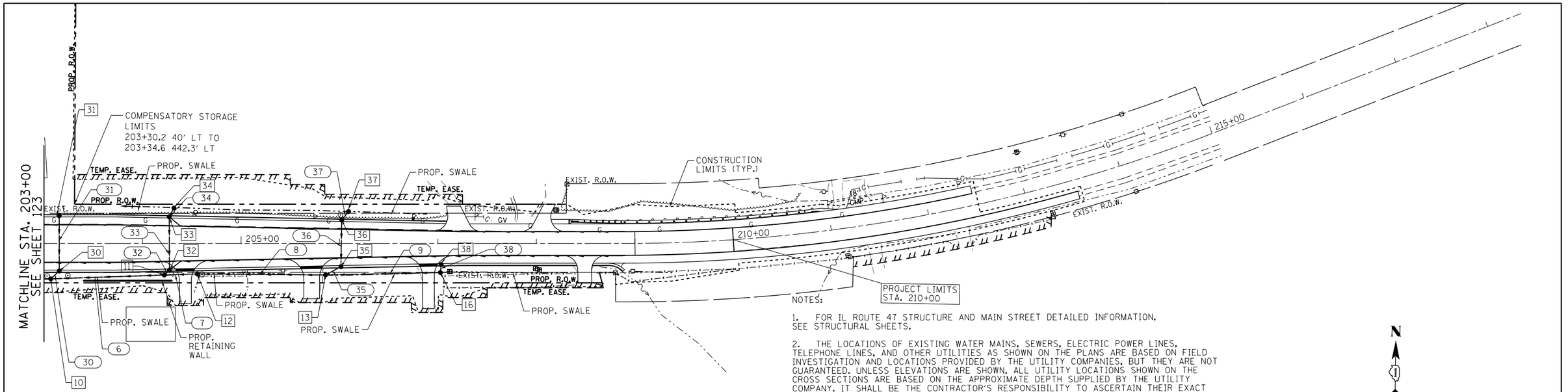
HILLHOUSE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAIN ST.
DRAINAGE PLAN & PROFILE – LEFT SIDE

SCALE: 1"=50' | SHEET NO. 10 OF 12 SHEETS | STA. 197+00.00 TO STA. 203+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	107N-4	KANE	288	124
		CONTRACT NO. 60T21		
	ILLINOIS FED. AID PROJECT			



NOTES:

1. FOR IL ROUTE 47 STRUCTURE AND MAIN STREET DETAILED INFORMATION, SEE STRUCTURAL SHEETS.

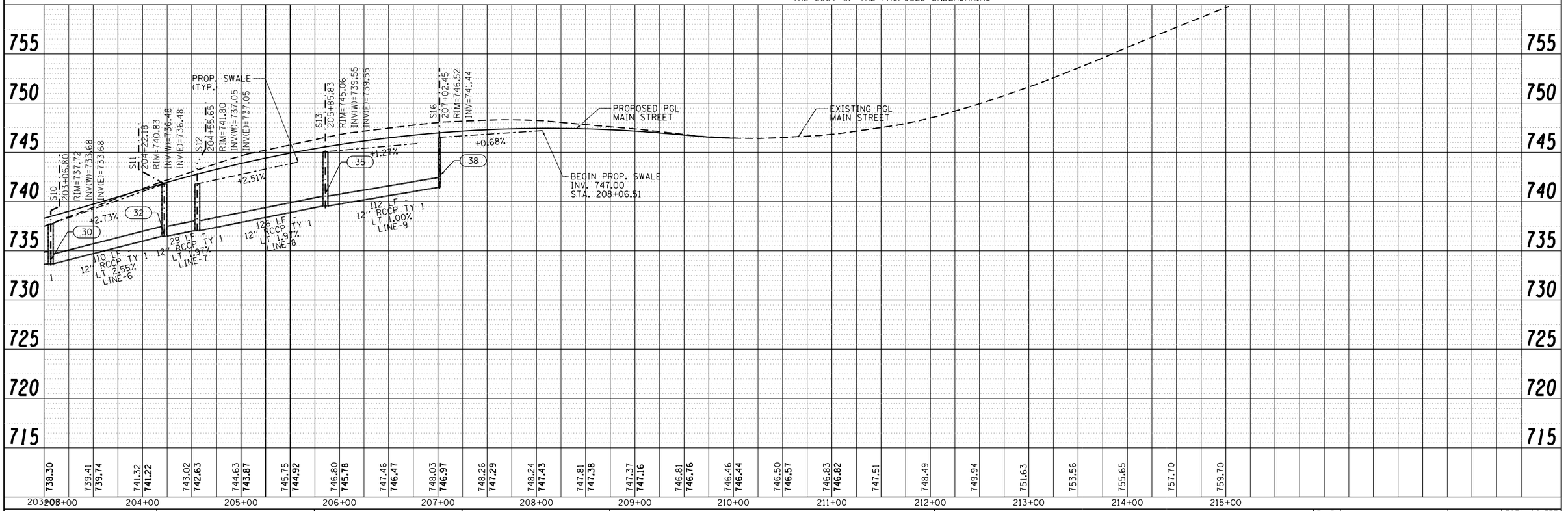
2. THE LOCATIONS OF EXISTING WATER MAINS, SEWERS, ELECTRIC POWER LINES, TELEPHONE LINES, AND OTHER UTILITIES AS SHOWN ON THE PLANS ARE BASED ON FIELD INVESTIGATION AND LOCATIONS PROVIDED BY THE UTILITY COMPANIES, BUT THEY ARE NOT GUARANTEED. UNLESS ELEVATIONS ARE SHOWN, ALL UTILITY LOCATIONS SHOWN ON THE CROSS SECTIONS ARE BASED ON THE APPROXIMATE DEPTH SUPPLIED BY THE UTILITY COMPANY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN THEIR EXACT LOCATION FROM THE UTILITY COMPANIES AND BY FIELD INSPECTION.

3. PROPOSED SWALES TO BE CONSTRUCTED ABOVE STORM SEWER SHOWN ALONG SOUTH SIDE OF MAIN STREET.

4. PIPE UNDERDRAINS TYPE 2 SHALL BE INSTALLED ACCORDING TO SECTION 601 OF THE STANDARD SPECIFICATIONS AND STANDARD 601001-05. TOP OF PIPE UNDERDRAINS SHALL BE PLACED 6" BELOW THE PROPOSED SUBGRADE OR AS DEEP AS POSSIBLE. THE COST OF MAKING PIPE UNDERDRAINS CONNECTIONS TO DRAINAGE STRUCTURES SHALL BE INCLUDED IN THE COST OF THE PROPOSED UNDERDRAINS

N

0 50' 100' 150'
SCALE IN FEET



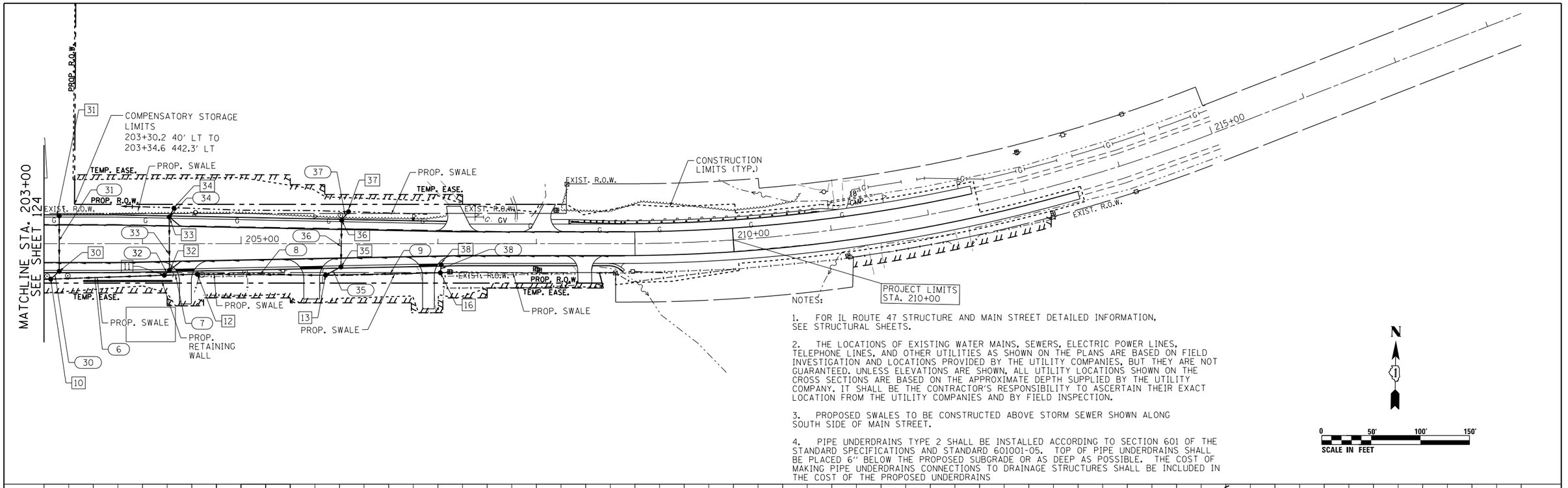
USER NAME = mlopez2	DESIGNED CB	REVISED -	STATE OF ILLINOIS
USER NAME =	DRAWN LB	REVISED -	DEPARTMENT OF TRANSPORTATION
PLOT SCALE = 100.0000 ' / in.	CHECKED CB	REVISED -	MAIN ST.
PLOT DATE = 1/28/2019	DATE 01/28/19	REVISED -	DRAINAGE PLAN & PROFILE – RIGHT SIDE

SCALE: 1"=50' | SHEET NO. 11 OF 12 SHEETS | STA. 203+00.00 TO STA. 210+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	107N-4	KANE	288	125

CONTRACT NO. 60T21

ILLINOIS FED. AID PROJECT



USER NAME = mlopez2	DESIGNED CB	REVISED -	STATE OF ILLINOIS
USER NAME =	DRAWN LB	REVISED -	DEPARTMENT OF TRANSPORTATION
PLOT SCALE = 100.0000 ' / in.	CHECKED CB	REVISED -	MAIN ST.
PLOT DATE = 1/28/2019	DATE 01/28/19	REVISED -	DRAINAGE PLAN & PROFILE – LEFT SIDE

SCALE: 1"=50' | SHEET NO. 12 OF 12 SHEETS | STA. 207+00.00 TO STA. 210+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	107N-4	KANE	288	126

CONTRACT NO. 60T21

ILLINOIS FED. AID PROJECT

STRUCTURE SCHEDULE

STRUCTURE NO.	ALIGNMENT	STATION	OFFSET	TYPE	RIM
S3	MAIN	200+70.66	80.39	CB TA 5 DIA T8G	728.70
S9	MAIN	202+35.04	38.18	CB TA 5 DIA T20 F&G	735.50
S10	MAIN	203+06.80	35.87	MAN TA 5 DIA T8G	737.72
S10				FLAT TOP SLAB,W/SUMP	
				732.00	
S11	MAIN	204+22.18	32.01	CB TA 4 DIA T8G	740.83
S12	MAIN	204+55.65	30.95	CB TA 4 DIA T8G	741.46
S13	MAIN	205+85.83	31.92	CB TA 4 DIA T8G	744.72
S15	MAIN	199+73.21	82.28	MAN TA 5 DIA T1F CL	732.50
S16	MAIN	207+02.45	29.47	CB TA 4 DIA T8G	746.18
S18	MAIN	193+22.00	21.60	CB TA 4 DIA T20 F&G	740.81
S18A	MAIN	195+05.42	34.09	INL TA 2 DIA T8G	733.50
S19	MAIN	195+05.56	22.09	CB TA 4 DIA T20 F&G	735.52
S19A	MAIN	196+07.09	24.38	CB TA 4 DIA T20 F&G	734.19
S20	MAIN	197+07.75	25.83	CB TA 4 DIA T20 F&G	733.41
S21	MAIN	198+20.18	25.85	CB TA 5 DIA T22 F&G	732.65
S25	MAIN	194+64.33	-55.28	MAN TA 5 DIA T8G	728.50
S25				FLAT TOP SLAB,W/SUMP	
				725.50	
S30	MAIN	203+15.39	27.94	CB TA 4 DIA T20 F&G	738.10
S31	MAIN	203+15.38	-28.28	CB TA 4 DIA T20 F&G	738.10
S32	MAIN	204+27.34	27.02	CB TA 4 DIA T20 F&G	741.38
S33	MAIN	204+27.15	-27.17	CB TA 4 DIA T20 F&G	741.38
S34	MAIN	204+31.96	-36.09	MAN TA 4 DIA T8G	741.17
				FLAT TOP SLAB,W/SUMP	
				735.33	
S35	MAIN	206+01.48	23.61	CB TA 4 DIA T20 F&G	745.12
S36	MAIN	206+02.28	-23.78	CB TA 4 DIA T20 F&G	745.12
S37	MAIN	206+09.18	-32.43	CB TA 4 DIA T8G	745.20
S38	MAIN	207+03.28	21.39	CB TA 5 DIA T20 F&G	746.34
S39	MAIN	193+16.85	25.50	CB TA 4 DIA T8G	740.75
STRUCTURE NO.	ALIGNMENT	STATION	OFFSET	TYPE	INVERT
FES-1.0	MAIN	199+65.99	81.15	PRC FLAR END SEC 36	723.16
FES-1.1	MAIN	197+36.99	-52.5	PRC FLAR END SEC 18	722.86
FES-1.2	MAIN	197+12.10	34.16	PRC FLAR END SEC 15	725.00
FES-1.3	IL 47	499+27.03	-58.1	PRC FLAR END SEC 18	723.50
FES-1.4	MAIN	202+03.86	39.23	PRC FLAR END SEC 15	732.57
FES-1.5	MAIN	198+20.11	35.19	PRC FLAR END SEC 12	724.50
FES-2.1	IL 47	493+65.71	40.46	PRC FLAR END SEC 21	738.33
FES-2.2	IL 47	493+89.92	40.85	PRC FLAR END SEC 21	737.97
FES-2.3	IL 47	495+85.46	40.41	PRC FLAR END SEC 21	732.51
FES-2.4	IL 47	496+09.67	40.46	PRC FLAR END SEC 21	732.15
FES-2.5	IL 47	492+38.90	-45.07	PRC FLAR END SEC 15	739.31
FES-2.6	IL 47	492+69.58	-44.59	PRC FLAR END SEC 15	738.76
FES-2.7	IL 47	493+94.48	-38.71	PRC FLAR END SEC 15	735.77
FES-2.8	IL 47	494+25.16	-38.54	PRC FLAR END SEC 15	735.15
S14	IL 47	498+55.55	-56.03	PRC FLAR END SEC 18	724.93
FES-2.9	IL 47	498+28.00	45.44	PRC FLAR END SEC 24	728.31
FES-2.10	IL 47	498+52.00	45.00	PRC FLAR END SEC 24	727.95

PIPE SCHEDULE

PIPE NO.	TYPE	U/S STRUCTURE	D/S STRUCTURE	U/S INVERT	D/S INVERT	SIZE (IN.)	LENGTH (LF)	SLOPE (%)	TRENCH BACKFILL (CY)
LINE-1	36" RCCP TY 1	S15	FES-1.0	723.21	723.16	36	5	1	0
LINE-2	36" RCCP TY 2	S3	S15	723.72	723.21	36	94	0.54	116
LINE-4	15" RCCP TY 1	S9	FES-1.4	732.86	732.57	15	29	1	1.5
LINE-5	15" RCCP TY 1	S10	S9	733.68	732.86	15	67	1.22	0
LINE-6	12" RCCP TY 1	S11	S10	736.48	736.68	12	110	2.55	0
LINE-7	12" RCCP TY 1	S12	S11	737.05	736.48	12	29	1.97	7.1
LINE-8	12" RCCP TY 1	S13	S12	739.55	737.05	12	125	2	7.5
LINE-9	12" RCCP TY 1	S16	S13	741.44	739.55	12	112	1.69	6.8
LINE-16	15" RCCP TY 1	S14	FES-1.3	724.93	723.50	15	72	2	9.3
LINE-17	12" RCCP TY 1	S19	S19A	730.53	729.52	12	98	1	23.4
LINE-17A	12" RCCP TY 1	S19A	S20	729.5	728.52	12	97	1	24
LINE-18	12" RCCP TY 1	S18	S19	735.82	731.13	12	180	2.67	29.6
LINE-18A	12" RCCP TY 1	S18A	S19	731.10	731.02	12	8	1	2
LINE-19	15" RCCP TY 2	S20	FES-1.2	725.07	725.00	15	9	0.78	5.9
LINE-20	18" RCCP TY 2	S25	FES-1.1	724.42	722.86	18	271	0.57	23
LINE-21	12" RCCP TY 2	S21	FES-1.5	724.95	724.5	12	9	5	5.2
LINE-30	12" RCCP TY 1	S30	S10	733.72	733.68	12	8	0.5	5
LINE-31	12" RCCP TY 2	S31	S30	733.97	733.72	12	51	0.49	6.7
LINE-32	12" RCCP TY 1	S32	S11	736.58	736.48	12	5	2	0
LINE-33	12" RCCP TY 2	S33	S32	737.13	736.58	12	51	1.08	41.2
LINE-34	12" RCCP TY 2	S34	S33	737.33	737.13	12	5	4	1
LINE-35	12" RCCP TY 1	S35	S13	740.3	739.55	12	13	5.77	1
LINE-36	12" RCCP TY 2	S36	S35	740.71	740.3	12	42	0.98	8.1
LINE-37	12" RCCP TY 2	S37	S36	740.93	740.71	12	6	3.67	1
LINE-38	12" RCCP TY 1	S38	S16	741.48	741.44	12	5	0.8	1
LINE-39	12" RCCP TY 1	S39	S18	735.90	735.82	12	4	2	1
LINE-50	P CUL CL A1 21	FES-2.1	FES-2.2	738.33	737.97	21	24	1.5	2
LINE-51	P CUL CL A1 21	FES-2.3	FES-2.4	732.51	732.15	21	24	1.49	2.9
LINE-52	P CUL CL A1 15	FES-2.5	FES-2.6	739.31	738.76	15	31	1.79	29
LINE-53	P CUL CL A1 15	FES-2.7	FES-2.8	735.77	735.15	15	31	1.79	15
LINE-54	P CUL CL A1 24	FES-2.9	FES-2.10	728.31	727.95	24	24	1.51	0

PLAN — SURVEYED — PLOTTED — ALIGNMENT CHECKED — RT. OF WAY CHECKED — CADD FILE NAME — NOTE BOOK — NO. — BY — DATE

PROFILE — SURVEYED — PLOTTED — GRADES CHECKED — B.M. NOTED — STRUCTURE NOTATNS CHKD — NOTE BOOK — NO. —

FILE NAME = P:\2015\0558 IDOT Dist1 IL Route 47 at Main S of Elburn IPTB 171-041\04-CADD\01 CADD Sheets\D160721-sht-drain15.dgn

USER NAME = yayyoub	DESIGNED - CB	REVISED -	
FILE NAME =	DRAWN - LB	REVISED -	
PLOT SCALE = 1.0000 ' / in.	CHECKED - CB	REVISED -	
PLOT DATE = 3/6/2019	DATE - 1/28/19	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE AND UTILITY SCHEDULE

SCALE: N/A | SHEET NO.1 OF 1 SHEETS | STA. N/A | TO STA. N/A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	107N-4	KANE	288	127
		CONTRACT NO. 60T21		
	ILLINOIS	FED. AID PROJECT		

PLAT OF HIGHWAYS INDEX SHEET

PARCEL NUMBER	OWNER	SHEET NUMBER	PROPERTY ACQUIRED BY
1MB0001 1MB0001TE	MARK D. SOUTHERN AND PATRICIA J. SOUTHERN, AS JOINT TENANTS	3	
1MB0002 1MB0002TE	KIANOOSH JAFARI, AS TRUSTEE UNDER TRUST AGREEMENT DATED JANUARY 26, 1999 AND KNOWN AS KIANOOSH JAFARI REVOCABLE TRUST	4	
1MB0003TE	NICOLET PROPERTIES VI LLC	4	
1MB0004 1MB0004TE-A 1MB0004TE-B	EDWARD AND ANNA DEMBOWSKI AS TRUSTEES UNDER THE EDWARD AND ANNA DEMBOWSKI DECLARATION OF TRUST DATED APRIL 24, 1993	5	
1MB0005TE	MARK D. SOUTHERN	5	
1MB0006TE-A 1MB0006TE-B	GREGORY M. PIVOVAR AND MARIANNE J. PIVOVAR, HUSBAND AND WIFE, IN JOINT TENANCY	5	
1MB0007	P.M. PROPERTIES, INC., AN ILLINOIS CORPORATION	6	
1MB0008TE	CREEKSIDE 47 PROPERTIES LLC, AN ILLINOIS LIMITED LIABILITY COMPANY	6, 7	
1MB0009 1MB0009TE	RUTH ROWE, FORMERLY KNOWN AS RUTH R. MOLINE OR RUTH ROWE MOLINE, DIVORCED AND NOT SINCE REMARRIED AS TO AN UNDIVIDED 1/2 INTEREST; MARY R. CAMPBELL, AS TO AN UNDIVIDED 1/4 INTEREST; MARY R. CAMPBELL AND DAVID W. CAMPBELL, HER HUSBAND, IN JOINT TENANCY, AS TO AN UNDIVIDED 1/4 INTEREST	6	
1MB0010 1MB0010TE-A 1MB0010TE-B	HEARTLAND BANK & TRUST COMPANY SUCCESSOR TO AMERICAN NATIONAL BANK OF DEKALB COUNTY AS TRUSTEE UNDER TRUST AGREEMENT DATED JANUARY 18, 2001 KNOWN AS TRUST NO. 2541	8	
1MB0011TE	ADRIENNE D. ELSNER	8	
1MB0012 1MB0012TE	ALAN GUTHKE AND ETHEL G. GUTHKE, HIS WIFE, IN JOINT TENANCY	8	
1MB0013 1MB0013TE	JOHN J. CALI, JR. AND RAE ANN CALI, HUSBAND AND WIFE, AS TENANTS BY THE ENTIRETY	8	
1MB00014 1MB0014TE	LARRY D. DIECKMAN AND E. JEANETTE DIECKMAN, HUSBAND AND WIFE, IN JOINT TENANCY	8	
1MB0015 1MB0015TE	CHRISTOPHER POWELL MOTLEY, A MARRIED MAN	9	
1MB0016TE	MIA A. RUSEV AND CHRISTOPHER D. RUSEV, HUSBAND AND WIFE, AS TENANTS BY ENTIRETY	9	
1MB0017TE	PETE MISNER	9	

REVISION DATE: 04/20/2018 REVISION MADE BY: TW

Ruettiger, Tonelli & Associates, Inc.
Surveyors • Engineers • Planners • Landscape Architects • G.I.S. Consultants
129 CAPISTA DRIVE - SHOREWOOD, ILLINOIS 60404
PH. (815) 744-6600 FAX (815) 744-0101
website: www.ruettigertonelli.com

R.T. & A. Dwg. No.: 2016-1131.00

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
IL 47

LIMITS: Main St. (S. of Elburn) COUNTY: KANE
SECTION: JOB NO.: R-91-004-12
STA. TO STA.
SCALE: N/A SHEET 2 OF 9 SHEETS

IDOT USE ONLY
RECEIVED
APR 2 0 2018
PLATS & LEGALS

BUREAU OF LAND ACQUISITION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196

PLAN: SURVEYED, PLOTTED, ALIGNMENT CHECKED, RT. OF WAY CHECKED, CADD FILE NAME; NOTE BOOK, NO.; BY, DATE
PROFILE: SURVEYED, PLOTTED, GRADES CHECKED, BM. NOTED, STRUCTURE NO(S)TNS CHKD; NOTE BOOK, NO.; BY, DATE

FILE NAME = P:\2015\0558 IDOT Dist1 IL Route 47 at Main S of Elburn (PTB 171-04)\04-CADD\01 CADD Sheets\D1601121-sht-ROW 01.dgn

HILHOUSE

USER NAME = mlopez2	DESIGNED -	REVISED -
FILE NAME =	DRAWN -	REVISED -
PLOT SCALE = 2.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 1/28/2019	DATE - 1/28/19	REVISED -

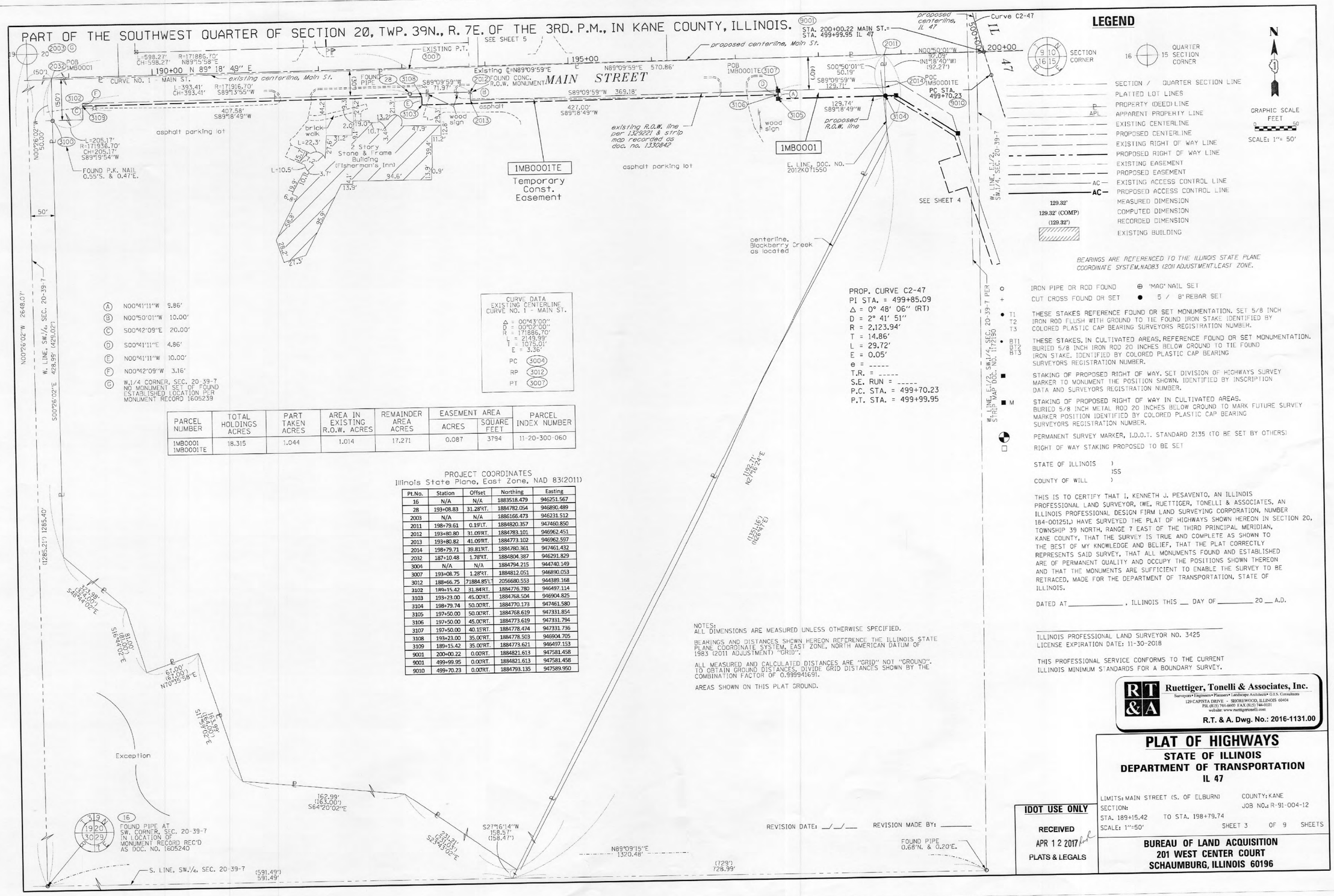
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RIGHT-OF-WAY PLAN

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	107N-4	KANE	288	128
		CONTRACT NO. 60T21		
	ILLINOIS FED. AID PROJECT			

PART OF THE SOUTHWEST QUARTER OF SECTION 20, TWP. 39N., R. 7E. OF THE 3RD. P.M., IN KANE COUNTY, ILLINOIS.



PARCEL NUMBER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA ACRES	EASEMENT AREA SQUARE FEET	PARCEL INDEX NUMBER
1MB0001	18.315	1.044	1.014	17.271	0.087	3794	11-20-300-060
1MB0001TE							

PROJECT COORDINATES
Illinois State Plane, East Zone, NAD 83(2011)

Pt.No.	Station	Offset	Northing	Easting
16	N/A	N/A	1883518.479	946251.567
28	193+08.83	31.28'RT.	1884782.054	946890.489
2003	N/A	N/A	1886166.473	946231.512
2011	198+79.61	0.19'LT.	1884820.357	947460.850
2012	193+80.80	31.09'RT.	1884783.101	946962.451
2013	193+80.82	41.09'RT.	1884773.102	946962.597
2014	198+79.71	39.81'RT.	1884780.361	947461.432
2032	187+10.48	1.78'RT.	1884804.387	946291.829
3004	N/A	N/A	1884794.215	944740.149
3007	193+08.75	1.28'RT.	1884812.051	946890.053
3012	188+66.75	71884.85'LT	2056680.553	944389.168
3102	189+15.42	31.84'RT.	1884776.780	946497.114
3103	193+23.00	45.00'RT.	1884768.504	946904.825
3104	198+79.74	50.00'RT.	1884770.173	947461.580
3105	197+50.00	50.00'RT.	1884768.619	947331.854
3106	197+50.00	45.00'RT.	1884773.619	947331.794
3107	197+50.00	40.15'RT.	1884778.474	947331.736
3108	193+23.00	35.00'RT.	1884778.503	946904.705
3109	189+15.42	35.00'RT.	1884773.621	946497.153
9001	200+00.22	0.00RT.	1884821.613	947581.458
9001	499+99.95	0.00RT.	1884821.613	947581.458
9010	499+70.23	0.00RT.	1884793.135	947589.950

NOTES:
ALL DIMENSIONS ARE MEASURED UNLESS OTHERWISE SPECIFIED.

BEARINGS AND DISTANCES SHOWN HEREON REFERENCE THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983 (2011 ADJUSTMENT) "GRID".

ALL MEASURED AND CALCULATED DISTANCES ARE "GRID" NOT "GROUND". TO OBTAIN GROUND DISTANCES, DIVIDE GRID DISTANCES SHOWN BY THE COMBINATION FACTOR OF 0.999941691.

AREAS SHOWN ON THIS PLAT GROUND.

LEGEND

- SECTION / QUARTER SECTION LINE
- PLATTED LOT LINES
- P — PROPERTY (DEED) LINE
- APL — APPARENT PROPERTY LINE
- EXISTING CENTERLINE
- PROPOSED CENTERLINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- EXISTING EASEMENT
- PROPOSED EASEMENT
- AC — EXISTING ACCESS CONTROL LINE
- AC — PROPOSED ACCESS CONTROL LINE
- 129.32' — MEASURED DIMENSION
- 129.32' (COMP) — COMPUTED DIMENSION
- (129.32') — RECORDED DIMENSION
- EXISTING BUILDING

SECTION CORNER

QUARTER SECTION CORNER

GRAPHIC SCALE FEET 0 50

SCALE: 1"= 50'

BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM, NAD83 (2011 ADJUSTMENT), EAST ZONE.

- ○ IRON PIPE OR ROD FOUND
- + CUT CROSS FOUND OR SET
- ⊕ "MAG" NAIL SET
- ● 5 / 8" REBAR SET
- ● T1 T2 T3 — THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- ● BT1 BT2 BT3 — THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION. BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- ■ — STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- ■ M — STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- ◐ □ — PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 2135 (TO BE SET BY OTHERS)
- RIGHT OF WAY STAKING PROPOSED TO BE SET

STATE OF ILLINOIS)
)SS
COUNTY OF WILL)

THIS IS TO CERTIFY THAT I, KENNETH J. PESAVENTO, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, (WE, RUETTIGER, TONELLI & ASSOCIATES, AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-001251,) HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 20, TOWNSHIP 39 NORTH, RANGE 7 EAST OF THE THIRD PRINCIPAL MERIDIAN, KANE COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT _____, ILLINOIS THIS __ DAY OF _____ 20__ A.D.

_____
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 3425
LICENSE EXPIRATION DATE: 11-30-2018

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

Ruettiger, Tonelli & Associates, Inc.
Surveyors • Engineers • Planners • Landscape Architects • G.I.S. Consultants
129 CAPISTA DRIVE - SHOREWOOD, ILLINOIS 60404
PH. (815) 744-6600 FAX (815) 744-0181
website: www.ruettigertonelli.com

R.T. & A. Dwg. No.: 2016-1131.00

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
IL 47

LIMITS: MAIN STREET (S. OF ELBURN) COUNTY: KANE
SECTION: JOB NO.: R-91-004-12
STA. 189+15.42 TO STA. 198+79.74
SCALE: 1"=50' SHEET 3 OF 9 SHEETS

IDOT USE ONLY
RECEIVED
APR 12 2017
PLATS & LEGALS

BUREAU OF LAND ACQUISITION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196

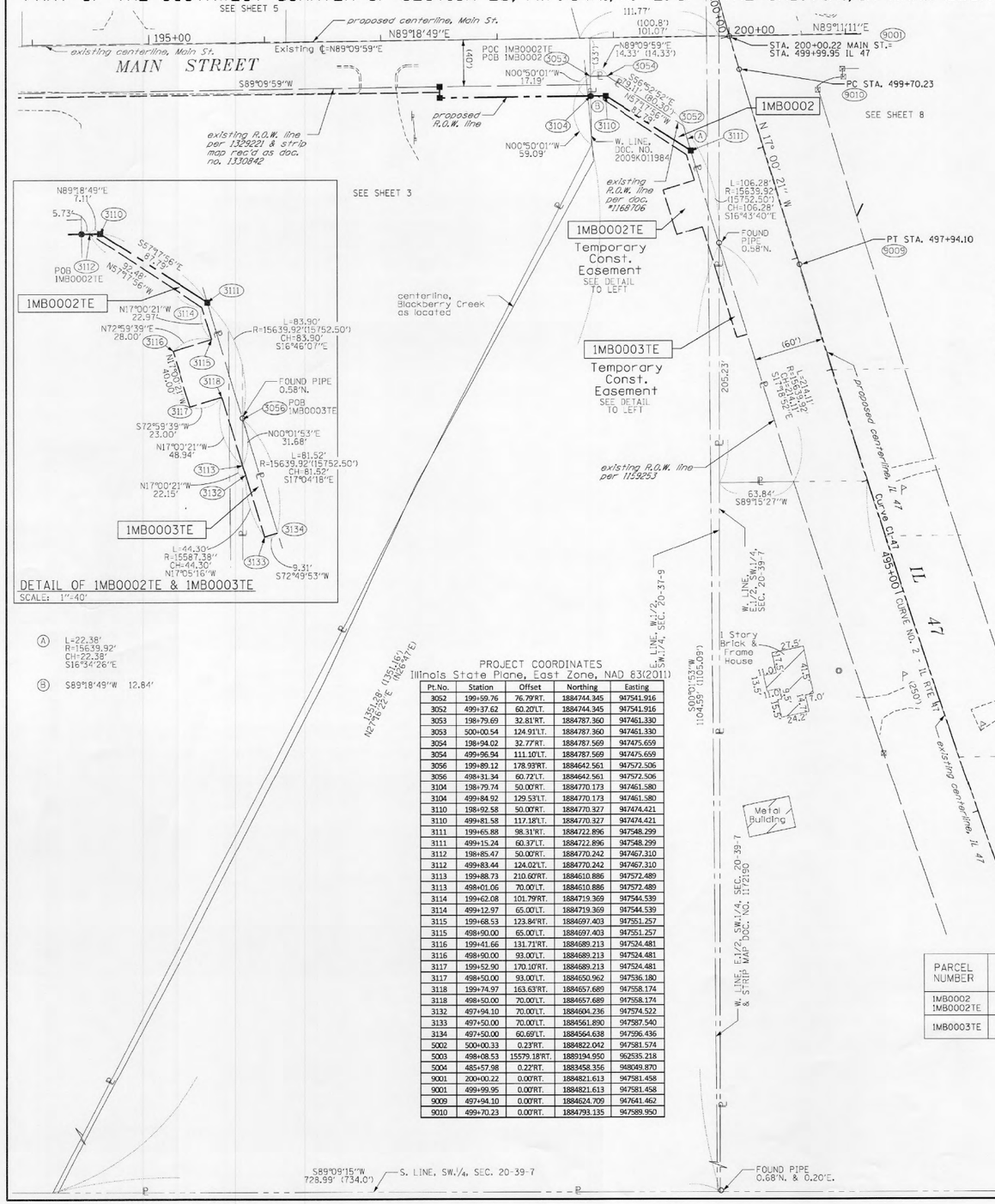
MILHOUSE	USER NAME = mlopez2	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	RIGHT-OF-WAY PLAN	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	FILE NAME =	DRAWN -	REVISED -			326	107N-4	KANE	288	129
	PLOT SCALE = 2.0000 ' / in.	CHECKED -	REVISED -						CONTRACT NO. 60T21	
	PLOT DATE = 1/28/2019	DATE - 1/28/19	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.			ILLINOIS	FED. AID PROJECT	

PROFILE: SURVEYED / PLOTTED / ALIGNMENT CHECKED / RT. OF WAY CHECKED / CADD FILE NAME / NOTE BOOK / NO. / BY / DATE

PLAN: SURVEYED / PLOTTED / ALIGNMENT CHECKED / RT. OF WAY CHECKED / CADD FILE NAME / NOTE BOOK / NO. / BY / DATE

FILE NAME = P:\2015\0558 IDOT Dist1 IL Route 47 at Main S of Elburn (PTB 177-041)\04-CADD\01 CADD Sheets\D1801211-sht-ROW 02.dgn

PART OF THE SOUTHWEST QUARTER OF SECTION 20, TWP. 39N., R. 7E. OF THE 3RD. P.M., IN KANE COUNTY, ILLINOIS.



Pt.No.	Station	Offset	Northing	Easting
3052	199+59.76	76.79'RT.	1884744.345	947541.916
3052	499+37.62	60.20'LT.	1884744.345	947541.916
3053	198+79.69	32.81'RT.	1884787.360	947461.330
3053	500+00.54	124.91'LT.	1884787.360	947461.330
3054	198+94.02	32.77'RT.	1884787.569	947475.659
3054	499+96.94	111.10'LT.	1884787.569	947475.659
3056	199+89.12	178.93'RT.	1884642.561	947572.506
3056	498+31.34	60.72'LT.	1884642.561	947572.506
3104	198+79.74	50.00'RT.	1884770.173	947461.580
3104	499+84.92	129.53'LT.	1884770.173	947461.580
3110	198+92.58	50.00'RT.	1884770.327	947474.421
3110	499+81.58	117.18'LT.	1884770.327	947474.421
3111	199+65.88	98.31'RT.	1884722.896	947548.299
3111	499+15.24	60.37'LT.	1884722.896	947548.299
3112	198+85.47	50.00'RT.	1884770.242	947467.310
3112	499+83.44	124.02'LT.	1884770.242	947467.310
3113	199+88.73	210.60'RT.	1884610.886	947572.489
3113	498+01.06	70.00'LT.	1884610.886	947572.489
3114	199+62.08	101.79'RT.	1884719.369	947544.539
3114	499+12.97	65.00'LT.	1884719.369	947544.539
3115	199+68.53	123.84'RT.	1884697.403	947551.257
3115	498+90.00	65.00'LT.	1884697.403	947551.257
3116	199+41.66	131.71'RT.	1884689.213	947524.481
3116	498+90.00	93.00'LT.	1884689.213	947524.481
3117	199+52.90	170.10'RT.	1884689.213	947524.481
3117	498+50.00	93.00'LT.	1884650.962	947536.180
3118	199+74.97	163.63'RT.	1884657.689	947558.174
3118	498+50.00	70.00'LT.	1884657.689	947558.174
3132	497+94.10	70.00'LT.	1884604.236	947574.522
3133	497+50.00	70.00'LT.	1884561.890	947587.540
3134	497+50.00	60.69'LT.	1884564.638	947596.436
5002	500+00.33	0.23'RT.	1884822.042	947581.574
5003	498+08.53	15579.18'RT.	1885194.950	962535.218
5004	485+57.98	0.22'RT.	1883458.356	948049.870
9001	200+00.22	0.00'RT.	1884821.613	947581.458
9001	499+99.95	0.00'RT.	1884821.613	947581.458
9009	497+94.10	0.00'RT.	1884624.709	947641.462
9010	499+70.23	0.00'RT.	1884793.135	947589.950

LEGEND

SECTION CORNER — QUARTER SECTION CORNER

GRAPHIC SCALE FEET 0 50 — SCALE: 1"= 50'

- SECTION / QUARTER SECTION LINE
- PLATTED LOT LINES
- P — PROPERTY (DEED) LINE
- AP — APPARENT PROPERTY LINE
- EXISTING CENTERLINE
- PROPOSED CENTERLINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- EXISTING EASEMENT
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- AC — EXISTING ACCESS CONTROL LINE
- AC — PROPOSED ACCESS CONTROL LINE
- 129.32' — MEASURED DIMENSION
- 129.32' (COMP) — COMPUTED DIMENSION
- (129.32') — RECORDED DIMENSION
- EXISTING BUILDING

BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM, NAD83 (2011 ADJUSTMENT), EAST ZONE.

- o IRON PIPE OR ROD FOUND
- + CUT CROSS FOUND OR SET
- ⊕ "MAG" NAIL SET
- ● 5 / 8" REBAR SET
- ● T1, T2, T3 — THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
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- ◒ PERMANENT SURVEY MARKER. I.D.O.T. STANDARD 2135 (TO BE SET BY OTHERS)
- □ RIGHT OF WAY STAKING PROPOSED TO BE SET

NOTES:
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BEARINGS AND DISTANCES SHOWN HEREON REFERENCE THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983 (2011 ADJUSTMENT) "GRID".

ALL MEASURED AND CALCULATED DISTANCES ARE "GRID" NOT "GROUND". TO OBTAIN GROUND DISTANCES, DIVIDE GRID DISTANCES SHOWN BY THE COMBINATION FACTOR OF 0.999941691.

AREAS SHOWN ON THIS PLAT GROUND.

CURVE DATA
EXISTING CENTERLINE
CURVE NO. 2 - IL RTE 47

Δ = 05°18'16"
D = 00°22'04"
R = 15579.92'
L = 1442.37'
T = 721.70'
E = 16.71'

PC (5002)
RP (5003)
PT (5004)

PROP. CURVE C1-47
PI STA. = 491+69.69
Δ = 4° 36' 49" (RT)
D = 0° 22' 09"
R = 15,517.38'
T = 625.09'
L = 1,249.50'
E = 12.59'
o = -----
T.R. = -----
S.E. RUN = -----
P.C. STA. = 485+44.60
P.T. STA. = 497+94.10

PARCEL NUMBER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA ACRES	EASEMENT AREA SQUARE FEET	PARCEL INDEX NUMBER
1MB0002 1MB0002TE	11.532	0.034	0.000	11.498	0.049	2123	11-20-300-049
1MB0003TE	0.149	0.000	0.000	0.149	0.014	616	11-20-300-059

STATE OF ILLINOIS)
)SS
COUNTY OF WILL)

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DATED AT _____, ILLINOIS THIS __ DAY OF _____ 20__ A.D.

_____
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 3425
LICENSE EXPIRATION DATE: 11-30-2018

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

Ruettiger, Tonelli & Associates, Inc.
Surveyors • Engineers • Planners • Landscape Architects • GIS, Consultants
129 CAPISTA DRIVE - SHOREWOOD, ILLINOIS 60404
PH. (815) 744-6600 FAX (815) 744-0101
website: www.rutengtonelli.com

R.T. & A. Dwg. No.: 2016-1131.00

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
IL 47

LIMITS: MAIN STREET (S. OF ELBURN) COUNTY: KANE
SECTION: JOB NO.: R-91-004-12
STA. 198+79.69 TO STA. 200+00.22
SCALE: 1"=50' SHEET 4 OF 9 SHEETS

BUREAU OF LAND ACQUISITION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196

REVISION DATE: 4/7/2017 REVISION MADE BY: TLW

IDOT USE ONLY
RECEIVED
APR 12 2017
PLATS & LEGALS

PROFILE — SURVEYED, PLOTTED, BORDERS CHECKED, BKM. NOTED, STRUCTURE NO. ____, NOTE BOOK ____, DATE, BY
PLAN — SURVEYED, PLOTTED, ALIGNMENT CHECKED, RT. OF WAY CHECKED, CADD FILE NAME, NOTE BOOK ____, NO. ____, DATE, BY

FILE NAME = P:\2015\0558 IDOT Dist1 IL Route 47 at Main S of Elburn (PTB 171-041)\04-CADD\01 CADD Sheets\D1801211-sht-ROW 03.dgn

USER NAME = mlopez2	DESIGNED -	REVISED -	
FILE NAME =	DRAWN -	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 1/28/2019	DATE - 1/28/19	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RIGHT-OF-WAY PLAN

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	107N-4	KANE	288	130
		CONTRACT NO. 60T21		
		ILLINOIS FED. AID PROJECT		

PART OF THE SOUTHWEST QUARTER OF SECTION 20, TWP. 39N., R. 7E. OF THE 3RD. P.M., IN KANE COUNTY, ILLINOIS.

(2003) W.1/4 CORNER, SEC. 20-39-7, NO MONUMENT SET OF FOUND ESTABLISHED LOCATION PER MONUMENT RECORD 1605239

N89°07'31"E 2684.00'

N. LINE, SW.1/4, SEC. 20-39-7

S. LINE, N.400.125', SW.1/4, SEC. 20-39-7

S89°07'31"W 420.91' (420.91')

found pipe 3.95'S.

(299.09')

S89°11'53"W 18.95' (18.95')

N89°07'38"E 474.91'

found pipe 0.54'W.

NOTES:
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BEARINGS AND DISTANCES SHOWN HEREON REFERENCE THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983 (2011 ADJUSTMENT) "GRID".

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AREAS SHOWN ON THIS PLAT GROUND.

PROJECT COORDINATES
Illinois State Plane, East Zone, NAD 83(2011)

Pt.No.	Station	Offset	Northing	Easting
2003	N/A	N/A	1886166.473	946231.512
2004	N/A	N/A	1886207.444	948915.196
2060	189+80.39	28.19'LT.	1884837.585	946561.362
2061	189+80.38	48.19'LT.	1884857.583	946561.109
2062	189+59.76	48.18'LT.	1884857.324	946540.499
2064	193+80.58	28.91'LT.	1884843.094	946961.513
2065	193+80.69	53.91'LT.	1884868.093	946961.324
2066	193+92.04	53.93'LT.	1884868.258	946972.677
2067	193+80.63	40.00'LT.	1884854.188	946961.429
2068	192+10.00	40.00'LT.	1884852.144	946790.815
2069	192+10.00	28.50'LT.	1884840.640	946790.953
2070	189+80.38	40.00'LT.	1884849.394	946561.212
2071	193+46.00	40.00'LT.	1884853.773	946926.805
2072	193+46.00	53.82'LT.	1884867.588	946926.639
2076	196+19.05	54.52'LT.	1884871.561	947199.666
2077	194+20.00	54.01'LT.	1884868.665	947000.633
2078	194+20.00	70.00'LT.	1884884.657	947000.441
2079	196+19.25	70.00'LT.	1884887.044	947199.678
2083	198+67.44	238.57'LT.	1885058.577	947445.828
2083	502+56.32	80.15'LT.	1885058.577	947445.828
2086	198+57.20	55.13'LT.	1884875.026	947437.783
2086	500+86.28	124.92'LT.	1884875.026	947437.783
2087	198+53.74	70.00'LT.	1884889.852	947434.151
2087	501+00.70	124.94'LT.	1884889.852	947434.151
2089	198+52.76	236.34'LT.	1885056.164	947431.177
2089	502+56.30	95.00'LT.	1885056.164	947431.177
2090	505+50.00	95.00'LT.	1885361.431	947402.712
2091	505+50.00	80.35'LT.	1885361.781	947417.354
3004	N/A	N/A	1884794.215	944740.149
3007	193+08.75	1.28'RT.	1884812.051	946890.053
3012	188+66.75	171884.85'LT.	2056680.553	944389.168
9001	200+00.22	0.00'RT.	1884821.613	947581.458
9001	499+99.95	0.00'RT.	1884821.613	947581.458
9010	499+70.23	0.00'RT.	1884793.135	947589.950

PARCEL NUMBER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA ACRES	EASEMENT AREA SQUARE FEET	PARCEL INDEX NUMBER
1MB0004 1MB0004TE-A 1MB0004TE-B	9.645	0.358	0.313	9.287	0.062 0.011	2683 480	11-20-300-045
1MB0005TE	2.273	0.000	0.000	2.273	0.072	3134	11-20-300-047
1MB0006TE-A 1MB0006TE-B	7.763	0.000	0.000	7.763	0.082 0.103	3586 4503	11-20-300-046

CURVE DATA
EXISTING CENTERLINE
CURVE NO. 1 - MAIN ST.
Δ = 00°43'00"
D = 00°02'00"
R = 171886.70'
L = 2149.99'
T = 1075.01'
E = 3.36'
PC (3004)
RP (3012)
PT (3007)

CURVE DATA
EXISTING CENTERLINE
CURVE NO. 1 - IL RTE 47
Δ = 34°23'20"
D = 02°42'51"
R = 2110.96'
L = 1267.00'
T = 653.23'
E = 98.76'
PC (5001)
RP (5000)
PT (5002)

PROP. CURVE C2-47
PI STA. = 506+43.12
Δ = 35° 09' 27" (RT)
D = 2° 41' 51"
R = 2,123.94'
T = 672.89'
L = 1,303.28'
E = 104.04'
e = -----
T.R. = -----
S.E. RUN = -----
P.C. STA. = 499+70.23
P.T. STA. = 512+73.51
chicken coop area

(A) N00°26'02"W 50.00'
(B) L=20.61' R=171836.70' CH=20.61' N89°16'45"E
(C) S00°43'27"E 20.00'
(D) L=229.61' R=171856.70' CH=229.61' N89°41'15"E
(E) N00°41'15"W 11.51'
(F) N00°26'02"W 13.91'
(G) N89°09'59"W 11.36'
(H) S00°02'41"W 55.01'
(J) S89°18'49"W 34.63'
(K) N00°41'15"W 13.82'
(L) N89°09'59"E 34.69'
(M) N00°41'15"W 15.99'
(N) S00°02'41"W 15.48'

Frame Building
2 Story Brick & Frame House
2 Story Brick & Frame Garage
2 Story Stone & Frame House
Stone & Frame Garage
2 Story Frame House
Arched Metal Building
chicken coop area
asphalt drive

W. LINE, SW.1/4, SEC. 20-39-7
W. LINE, E.600', W.1/2, SW.1/4, SEC. 20-39-7
526.40'
500°26'02"E 963.64' (959.82')
N00°26'02"W 2648.07'
964.38' (960.35') N00°02'41"E
S89°57'19"E 226.39' (227')
280.8'
431.97' (438')
434.49' (436.65') S00°02'41"W
E. LINE, DOC. NO. 2015K050612
W. LINE, DOC. NO. 1998K
E. LINE, W.720.0', SW.1/4, SEC. 20-39-7
Parcel 1
Parcel 2
W. LINE, PARCEL 1, DOC. NO. 93K14062

1MB0004TE-A Temporary Const. Easement
1MB0004TE-B Temporary Const. Easement
1MB0004
1MB0005TE Temporary Const. Easement
1MB0006TE-A Temporary Const. Easement
1MB0006TE-B Temporary Const. Easement

found pipe 0.11'S. & 0.24'E.
found conc. R.O.W. monument 0.60'S. & 0.25'W.
found conc. R.O.W. monument 0.52'S. & 0.32'E.
found pipe 0.08'S. & 0.09'E.
found pipe 0.19'S&W
found conc. R.O.W. monument 0.60'W. & 1.15'S.

POB 1MB0004TE-A
POB 1MB0004
POB 1MB0004TE-B
POB 1MB0005TE
POB 1MB0006TE-B
POB 1MB0006TE-A

8.91' S00°43'27"E
11.81' S00°43'27"E
S89°18'49"W 229.62'
N89°18'49"E 170.63'
N89°18'49"E 199.25'
199.05' S89°09'59"W
238.14' S89°09'59"W
252.55' S89°09'59"W
82.59' S89°09'59"W
227.01' (227.02') S89°09'59"W
N88°37'57"E 14.65'
45.00' N80°38'59"E
N89°11'11"E
13.91'
27.36'
(11.08')
(80')
(125')
(55')
(30')
(50')
(10')
14.85'
30.15'

L=349.21' R=171886.70' CH=349.21' S89°13'28"W

MAIN STREET

190+00 N 89° 18' 49" E
195+00
200+00
STA. 200+00.22 MAIN ST. = STA. 499+99.95 IL 47

CURVE NO. 1 - MAIN ST.
EXISTING P.T. (3007)
PC STA. 499+70.23 (9010)
SEE SHEET 3
SEE SHEET 6

existing R.O.W. line per doc. no. 1103693
existing R.O.W. line per doc. no. 1320287
existing R.O.W. line per doc. no. 1320288
existing centerline, Main St.
proposed centerline, Main St.
existing centerline IL 47
Existing ℄ N89°09'59"E
proposed R.O.W. line
existing R.O.W. line per doc. no. 1172190
proposed centerline IL 47
N. LINE, SW.1/4, SEC. 20-39-7
W. LINE, E1/2, SW.1/4, SEC. 20-39-7
SEC. 20-39-7 & STRIP MAP DOC. NO. 1172190
N05°19'38"W L=304.18' R=2218.96' CH=304.05'
S05°15'41"E L=296.84' R=2218.96' CH=296.62'
S00°26'02"E L=1792.56' R=2110.96' CH=1738.29'
S22°56'16"E L=236.55' R=2110.96' CH=236.43'
N.W. LINE, E1/2, SW.1/4, SEC. 20-39-7
L=15.27' CH=15.27' S13°46'01"E
R=2235.96' L=180.00' CH=179.95' N13°39'23"W

LEGEND

SECTION CORNER
QUARTER SECTION CORNER
SECTION / QUARTER SECTION LINE
PLATTED LOT LINES
PROPERTY (DEED) LINE
APPARENT PROPERTY LINE
EXISTING CENTERLINE
PROPOSED CENTERLINE
EXISTING RIGHT OF WAY LINE
PROPOSED RIGHT OF WAY LINE
EXISTING EASEMENT
PROPOSED EASEMENT
EXISTING ACCESS CONTROL LINE
PROPOSED ACCESS CONTROL LINE
129.32' MEASURED DIMENSION
129.32' (COMP) COMPUTED DIMENSION
(129.32') RECORDED DIMENSION
EXISTING BUILDING

N
GRAPHIC SCALE FEET 0 50
SCALE: 1"= 50'

BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM, NAD83 (2011 ADJUSTMENT), EAST ZONE.

- IRON PIPE OR ROD FOUND
- CUT CROSS FOUND OR SET
- ⊕ "MAG" NAIL SET
- ● 5 / 8" REBAR SET
- ● T1, T2, T3 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- ● BT1, BT2, BT3 THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION. BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- ■ STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- ■ M STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- ⊕ PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 2135 (TO BE SET BY OTHERS)
- □ RIGHT OF WAY STAKING PROPOSED TO BE SET

STATE OF ILLINOIS)
)SS
COUNTY OF WILL)

THIS IS TO CERTIFY THAT I, KENNETH J. PESAVENTO, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, (WE, RUETTIGER, TONELLI & ASSOCIATES, AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-001251,) HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 20, TOWNSHIP 39 NORTH, RANGE 7 EAST OF THE THIRD PRINCIPAL MERIDIAN, KANE COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT _____, ILLINOIS THIS __ DAY OF _____ 20__ A.D.

_____
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 3425
LICENSE EXPIRATION DATE: 11-30-2018

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

Ruettiger, Tonelli & Associates, Inc.
Surveyors • Engineers • Planners • Landscape Architects • GIS Consultants
129 CAPISTA DRIVE - SHOREWOOD, ILLINOIS 60404
PH. (815) 744-6660 FAX (815) 744-0101
website: www.ruettigertonelli.com

R.T. & A. Dwg. No.: 2016-1131.00

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
(IL 47)

LIMITS: MAIN STREET (S. OF ELBURN) COUNTY: KANE
SECTION: JOB NO.: R-91-004-12
STA. 189+59.76 TO STA. 198+67.44
SCALE: 1"=50' SHEET 5 OF 9 SHEETS

BUREAU OF LAND ACQUISITION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196

IDOT USE ONLY
RECEIVED
APR 12 2017
PLATS & LEGALS

REVISION DATE: __/__/__ REVISION MADE BY: _____

USER NAME = mlopez2	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	RIGHT-OF-WAY PLAN	
FILE NAME =	DRAWN -	REVISED -		SCALE:	SHEET NO. OF SHEETS STA. TO STA.
PLOT SCALE = 2.0000 ' / in.	CHECKED -	REVISED -			
PLOT DATE = 1/28/2019	DATE - 1/28/19	REVISED -			

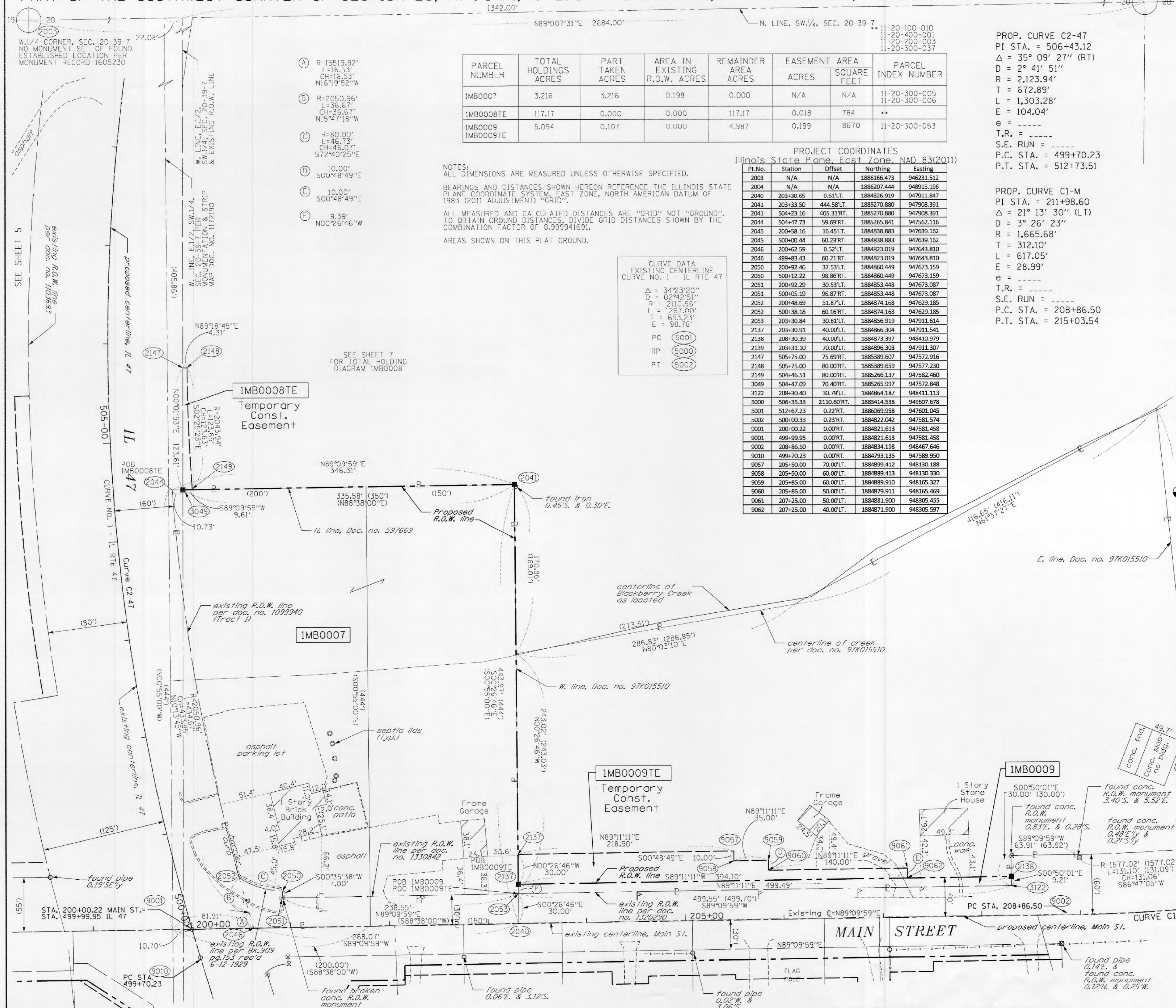
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	107N-4	KANE	288	131
		CONTRACT NO. 60T21		
	ILLINOIS FED. AID PROJECT			

PLAN: SURVEYED, PLOTTED, DRAWN, CHECKED, BM. NOTED, STRUCTURE NOTATNS CHK'D, RT. OF WAY CHECKED, CADD FILE NAME, NOTE BOOK, NO. — BY — DATE

PROFILE: SURVEYED, PLOTTED, DRAWN, CHECKED, BM. NOTED, STRUCTURE NOTATNS CHK'D, NOTE BOOK, NO. —

FILE NAME = P:\2015\0558 IDOT Dist1 IL Route 47 at Main S of Elburn IPTB 177-19\Y04-CADD\01 CADD\Sheets\D160721-sht-ROW 04.dgn

PART OF THE SOUTHWEST QUARTER OF SECTION 20, TWP. 39N., R. 7E. OF THE 3RD. P.M., IN KANE COUNTY, ILLINOIS.



Ⓐ	R=15519.92' L=16.53' CH=16.53' N16°19'52"W
Ⓑ	R=2050.96' L=36.67' CH=36.67' N15°47'18"W
Ⓒ	R=80.00' L=46.73' CH=46.07' S72°40'25"E
Ⓓ	10.00' S00°48'49"E
Ⓔ	10.00' S00°48'49"E
Ⓕ	9.39' N00°26'46"W

PARCEL NUMBER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA		PARCEL INDEX NUMBER
					ACRES	SQUARE FEET	
1MB0007	3.216	3.216	0.198	0.000	N/A	N/A	11-20-300-005 11-20-300-006
1MB0008TE	117.17	0.000	0.000	117.17	0.018	784	**
1MB0009 1MB0009TE	5.094	0.107	0.000	4.987	0.199	8670	11-20-300-053

** 11-20-100-010 11-20-400-001 11-20-200-003 11-20-300-037

NOTES:
ALL DIMENSIONS ARE MEASURED UNLESS OTHERWISE SPECIFIED.

BEARINGS AND DISTANCES SHOWN HEREON REFERENCE THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983 (2011 ADJUSTMENT) "GRID".

ALL MEASURED AND CALCULATED DISTANCES ARE "GRID" NOT "GROUND". TO OBTAIN GROUND DISTANCES, DIVIDE GRID DISTANCES SHOWN BY THE COMBINATION FACTOR OF 0.999941691.

AREAS SHOWN ON THIS PLAT GROUND.

CURVE DATA
EXISTING CENTERLINE
CURVE NO. 1 - IL RTE 47

Δ = 34°23'20"
D = 02°42'51"
R = 2110.96'
L = 1267.00'
T = 653.23'
E = 98.76'
PC (5001)
RP (5000)
PT (5002)

PROJECT COORDINATES
Illinois State Plane, East Zone, NAD 83(2011)

Pt.No.	Station	Offset	Northing	Easting
2003	N/A	N/A	1886166.473	946231.512
2004	N/A	N/A	1886207.444	948915.196
2040	203+30.65	0.61'LT.	1884826.919	947911.847
2041	203+33.50	444.58'LT.	1885270.880	947908.391
2041	504+23.16	405.31'RT.	1885270.880	947908.391
2044	504+47.73	59.69'RT.	1885265.841	947562.116
2045	200+58.16	16.45'LT.	1884838.883	947639.162
2045	500+00.44	60.23'RT.	1884838.883	947639.162
2046	200+62.59	0.52'LT.	1884823.019	947643.810
2046	499+83.43	60.21'RT.	1884823.019	947643.810
2050	200+92.46	37.53'LT.	1884860.449	947673.159
2050	500+12.22	98.86'RT.	1884860.449	947673.159
2051	200+92.29	30.53'LT.	1884853.448	947673.087
2051	500+05.19	96.87'RT.	1884853.448	947673.087
2052	200+48.69	51.87'LT.	1884874.168	947629.185
2052	500+38.18	60.16'RT.	1884874.168	947629.185
2053	203+30.84	30.61'LT.	1884856.919	947911.614
2137	203+30.91	40.00'LT.	1884866.304	947911.541
2138	208+30.39	40.00'LT.	1884873.397	948410.979
2139	203+31.10	70.00'LT.	1884896.303	947911.307
2147	505+75.00	75.69'RT.	1885389.607	947572.916
2148	505+75.00	80.00'RT.	1885389.659	947577.230
2149	504+46.51	80.00'RT.	1885266.137	947582.460
3049	504+47.09	70.40'RT.	1885265.997	947572.848
3122	208+30.40	30.79'LT.	1884864.187	948411.113
5000	506+35.33	2110.60'RT.	1885414.538	949607.678
5001	512+67.23	0.22'RT.	1886069.958	947601.045
5002	500+00.33	0.23'RT.	1884822.042	947581.574
9001	200+00.22	0.00'RT.	1884821.613	947581.458
9001	499+99.95	0.00'RT.	1884821.613	947581.458
9002	208+86.50	0.00'RT.	1884834.198	948467.646
9010	499+70.23	0.00'RT.	1884793.135	947589.950
9057	205+50.00	70.00'LT.	1884899.412	948130.188
9058	205+50.00	60.00'LT.	1884889.413	948130.330
9059	205+85.00	60.00'LT.	1884889.910	948165.327
9060	205+85.00	50.00'LT.	1884879.911	948165.469
9061	207+25.00	50.00'LT.	1884881.900	948305.455
9062	207+25.00	40.00'LT.	1884871.900	948305.597

PROP. CURVE C2-47
PI STA. = 506+43.12
Δ = 35° 09' 27" (RT)
D = 2° 41' 51"
R = 2,123.94'
T = 672.89'
L = 1,303.28'
E = 104.04'
e = _____
T.R. = _____
S.E. RUN = _____
P.C. STA. = 499+70.23
P.T. STA. = 512+73.51

PROP. CURVE C1-M
PI STA. = 211+98.60
Δ = 21° 13' 30" (LT)
D = 3° 26' 23"
R = 1,665.68'
T = 312.10'
L = 617.05'
E = 28.99'
e = _____
T.R. = _____
S.E. RUN = _____
P.C. STA. = 208+86.50
P.T. STA. = 215+03.54

LEGEND

SECTION CORNER
QUARTER SECTION CORNER
SECTION / QUARTER SECTION LINE
PLATTED LOT LINES
PROPERTY (DEED) LINE
APPARENT PROPERTY LINE
EXISTING CENTERLINE
PROPOSED CENTERLINE
EXISTING RIGHT OF WAY LINE
PROPOSED RIGHT OF WAY LINE
EXISTING EASEMENT
PROPOSED EASEMENT
EXISTING ACCESS CONTROL LINE
PROPOSED ACCESS CONTROL LINE
129.32' MEASURED DIMENSION
129.32' (COMP) COMPUTED DIMENSION
(129.32') RECORDED DIMENSION
EXISTING BUILDING

GRAPHIC SCALE FEET 0 50
SCALE: 1"= 50'

BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM, NAD83 (2011 ADJUSTMENT), EAST ZONE.

○ IRON PIPE OR ROD FOUND ⊕ "MAG" NAIL SET
\+ CUT CROSS FOUND OR SET ● 5 / 8" REBAR SET

• T1 T2 T3 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.

• BT1 BT2 BT3 THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION. BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.

■ STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.

■ M STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.

PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 2135 (TO BE SET BY OTHERS)

□ RIGHT OF WAY STAKING PROPOSED TO BE SET

STATE OF ILLINOIS)
)SS
COUNTY OF WILL)

THIS IS TO CERTIFY THAT I, KENNETH J. PESAVENTO, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, (WE, RUETTIGER, TONELLI & ASSOCIATES, AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-001251,) HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 20, TOWNSHIP 39 NORTH, RANGE 7 EAST OF THE THIRD PRINCIPAL MERIDIAN, KANE COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT ______________, ILLINOIS THIS __ DAY OF _________ 20 __ A.D.

____

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 3425
LICENSE EXPIRATION DATE: 11-30-2018

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

Ruettiger, Tonelli & Associates, Inc.
Surveyors• Engineers• Planners• Landscape Architects• G.I.S. Consultants
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PH. (815) 744-6600 FAX (815) 744-0101
website: www.ruettigertonelli.com
R.T. & A. Dwg. No.: 2016-1131.00

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
(IL 47)

LIMITS: MAIN STREET (S. OF ELBURN) COUNTY: KANE
SECTION: JOB NO.: R-91-004-12
STA. 200+48.69 TO STA. 208+30.40
SCALE: 1"=50' SHEET 6 OF 9 SHEETS

BUREAU OF LAND ACQUISITION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196

IDOT USE ONLY
RECEIVED
APR 12 2017
PLATS & LEGALS

REVISION DATE: 4/7/2017 REVISION MADE BY: TW

PLAN	SURVEYED / PLOTTED / ALIGNMENT CHECKED / RT. OF WAY CHECKED / CADD FILE NAME	BY	DATE
NOTE BOOK NO.			

PROFILE	SURVEYED / PLOTTED / GRADES CHECKED / B.M. NOTED / STRUCTURE NOTAT'NS CH'KD	BY	DATE
NOTE BOOK NO.			

FILE NAME = P:\2015\0558 IDOT Dist1 IL Route 47 at Main S of Elburn (PTB 171-04)\04-CADD\01 CADD_Sheets\D160T21-sht-ROW 05.dgn

MILHOUSE	USER NAME = mlopez2	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	RIGHT-OF-WAY PLAN
	FILE NAME =	DRAWN -	REVISED -		
	PLOT SCALE = 2.0000 ' / in.	CHECKED -	REVISED -		
	PLOT DATE = 1/28/2019	DATE - 1/28/19	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	107N-4	KANE	288	132
		CONTRACT NO. 60T21		
	ILLINOIS FED. AID PROJECT			

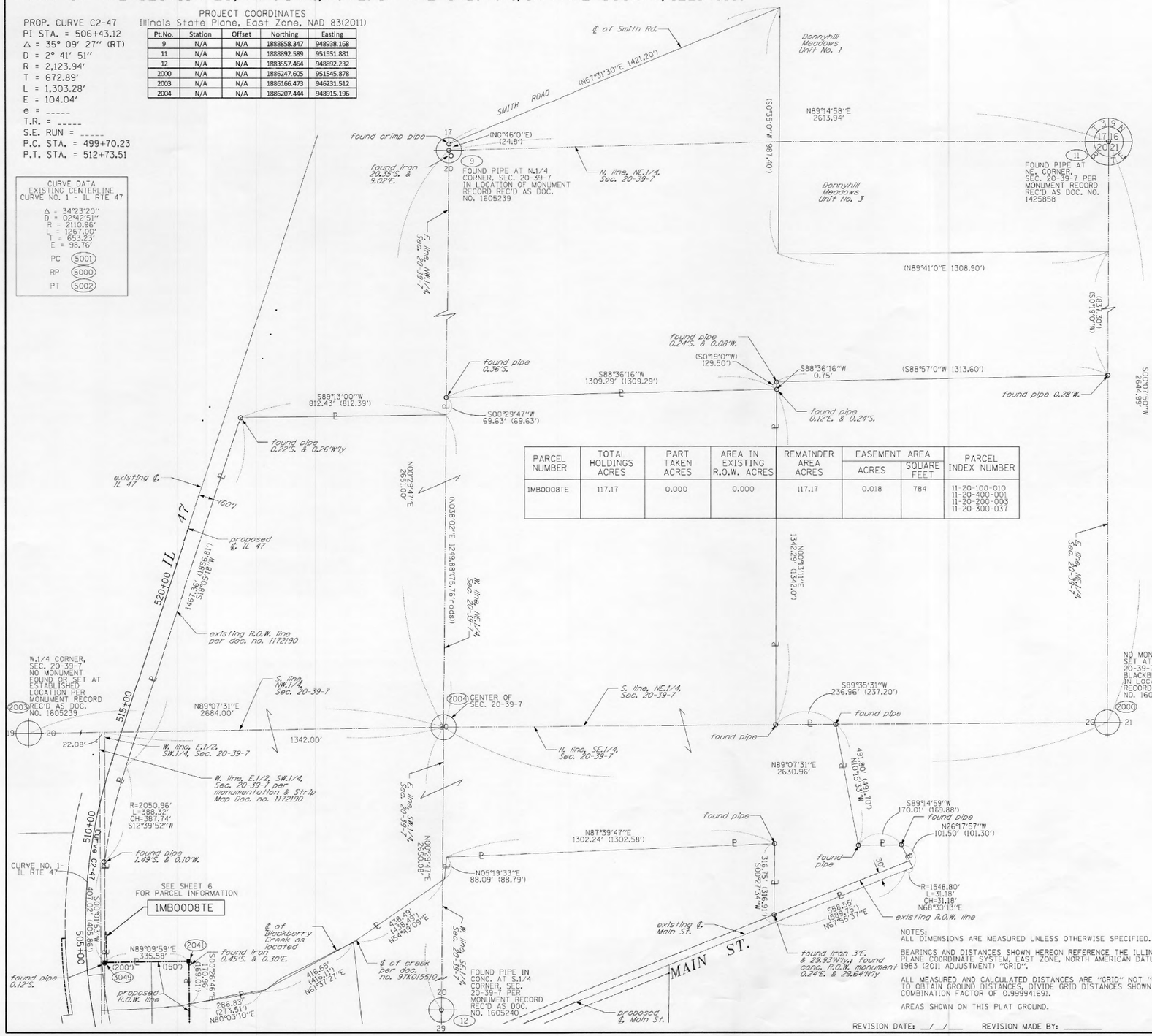
PART OF THE SECTION 20, TWP. 39N., R. 7E. OF THE 3RD. P.M., IN KANE COUNTY, ILLINOIS.

PROP. CURVE C2-47
PI STA. = 506+43.12
Δ = 35° 09' 27" (RT)
D = 2° 41' 51"
R = 2,123.94'
T = 672.89'
L = 1,303.28'
E = 104.04'
e = -----
T.R. = -----
S.E. RUN = ----
P.C. STA. = 499+70.23
P.T. STA. = 512+73.51

PROJECT COORDINATES
Illinois State Plane, East Zone, NAD 83(2011)

Pt.No.	Station	Offset	Northing	Easting
9	N/A	N/A	1888858.347	948938.168
11	N/A	N/A	1888892.589	951551.881
12	N/A	N/A	1883557.464	948892.232
2000	N/A	N/A	1886247.605	951545.878
2003	N/A	N/A	1886166.473	946231.512
2004	N/A	N/A	1886207.444	948915.196

CURVE DATA
EXISTING CENTERLINE
CURVE NO. 1 - IL RTE 47
Δ = 34°23'20"
D = 02°42'51"
R = 2110.96'
L = 1267.00'
T = 653.23'
E = 98.76'
PC (5001)
RP (5000)
PT (5002)



PARCEL NUMBER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA ACRES	EASEMENT AREA SQUARE FEET	PARCEL INDEX NUMBER
1MB0008TE	117.17	0.000	0.000	117.17	0.018	784	11-20-100-010 11-20-400-001 11-20-200-003 11-20-300-037

LEGEND

SECTION CORNER
QUARTER SECTION CORNER
GRAPHIC SCALE FEET 0 50
SCALE: 1"= 50'

- SECTION / QUARTER SECTION LINE
- PLATTED LOT LINES
- P — PROPERTY (DEED) LINE
- APL — APPARENT PROPERTY LINE
- EXISTING CENTERLINE
- PROPOSED CENTERLINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- EXISTING EASEMENT
- PROPOSED EASEMENT
- AC — EXISTING ACCESS CONTROL LINE
- AC — PROPOSED ACCESS CONTROL LINE
- 129.32' MEASURED DIMENSION
- 129.32' (COMP) COMPUTED DIMENSION
- (129.32') RECORDED DIMENSION
- EXISTING BUILDING

BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM, NAD83 (2011 ADJUSTMENT), EAST ZONE.

- ○ IRON PIPE OR ROD FOUND
- ⊕ 'MAG' NAIL SET
- \+ CUT CROSS FOUND OR SET
- ● 5/8" REBAR SET
- ● T1, T2, T3 — THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- ● BT1, BT2, BT3 — THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION. BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- ■ STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- ■ M — STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- ⊕ PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 2135 (TO BE SET BY OTHERS)
- □ RIGHT OF WAY STAKING PROPOSED TO BE SET

STATE OF ILLINOIS)
)SS
COUNTY OF WILL)

THIS IS TO CERTIFY THAT I, KENNETH J. PESAVENTO, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, (WE, RUETTIGER, TONELLI & ASSOCIATES, AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-001251,) HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 20, TOWNSHIP 39 NORTH, RANGE 7 EAST OF THE THIRD PRINCIPAL MERIDIAN, KANE COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT _____, ILLINOIS THIS __ DAY OF _____ 20__ A.D.

_____
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 3425
LICENSE EXPIRATION DATE: 11-30-2018

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

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R.T. & A. Dwg. No.: 2016-1131.00

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
(IL 47)

LIMITS: MAIN STREET (S. OF ELBURN) COUNTY: KANE
SECTION: JOB NO.: R-91-004-12
STA. N/A TO STA. N/A
SCALE: N/A SHEET 7 OF 9 SHEETS

IDOT USE ONLY
RECEIVED
APR 12 2017
PLATS & LEGALS

BUREAU OF LAND ACQUISITION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196

PROFILE: SURVEYED / PLOTTED / CHECKED / BAK. NOTED / STRUCTURE NO. ____ / DATE
PLAN: SURVEYED / PLOTTED / ALIGNMENT CHECKED / RT. OF WAY CHECKED / CADD FILE NAME / NOTE BOOK / NO. ____ / BY / DATE

FILE NAME = P:\2015\0558 IDOT Dist1 IL Route 47 at Main S of Elburn (PTB 171-04)\04-CADD\01 CADD Sheets\D1601121-sht-ROW 06.dgn

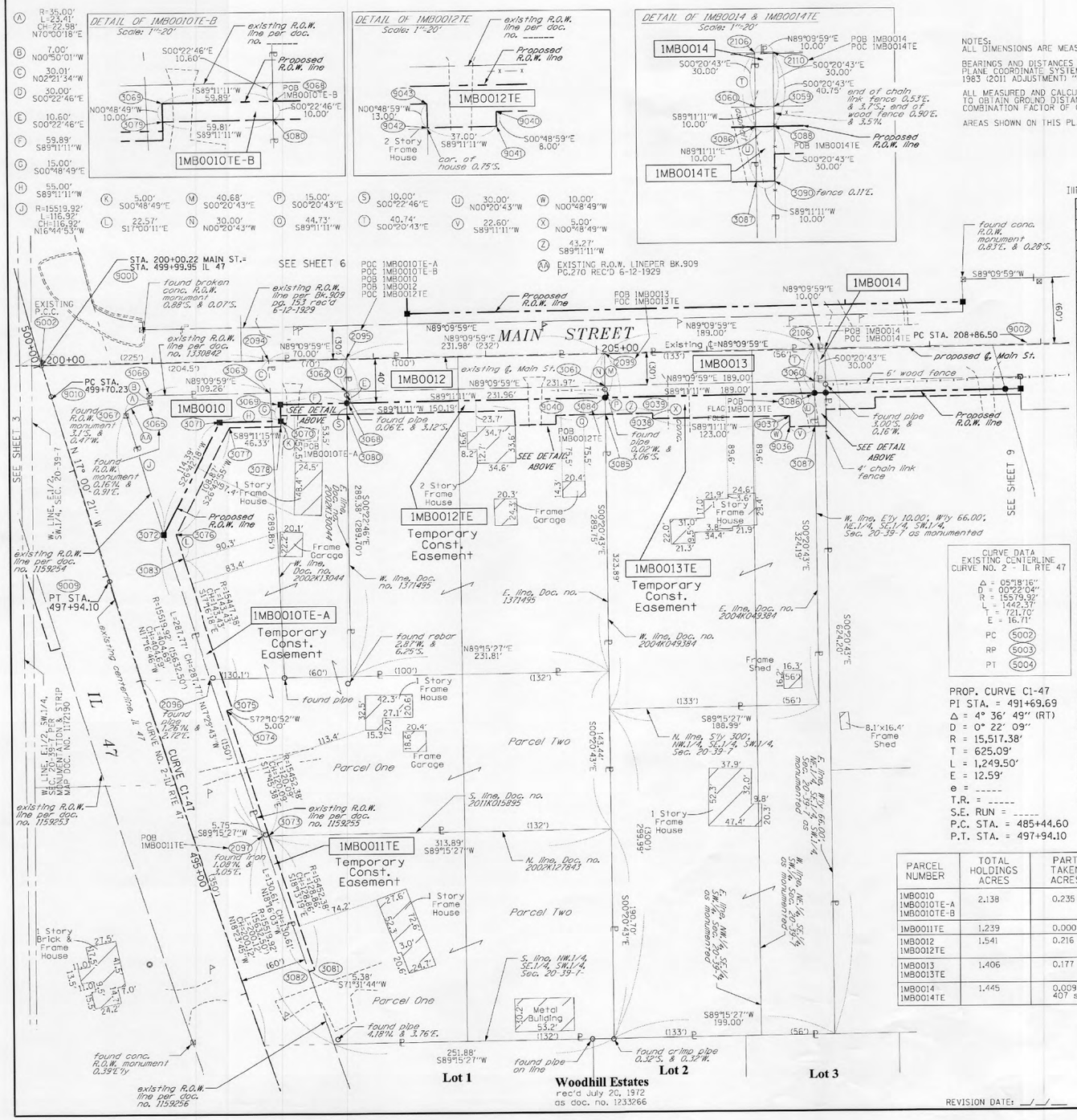
USER NAME = mlopez2	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
FILE NAME =	DRAWN -	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 1/28/2019	DATE - 1/28/19	REVISED -	

RIGHT-OF-WAY PLAN

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	107N-4	KANE	288	133
		CONTRACT NO. 60T21		
	ILLINOIS FED. AID PROJECT			

PART OF THE SOUTHWEST QUARTER OF SECTION 20, TWP. 39N., R. 7E. OF THE 3RD. P.M., IN KANE COUNTY, ILLINOIS.



(A)	R=35.00' L=23.41' CH=22.98' N70°00'18"E	(K)	5.00' S00°48'49"E	(M)	40.68' S00°20'43"E	(P)	15.00' S00°20'43"E	(S)	10.00' S00°22'46"E
(B)	7.00' N00°50'01"W	(L)	22.57' S17°00'11"E	(N)	30.00' N00°20'43"W	(O)	44.73' S89°11'11"W	(T)	40.74' S00°20'43"E
(C)	30.01' N02°21'34"W								
(D)	30.00' S00°22'46"E								
(E)	10.60' S00°22'46"E								
(F)	59.89' S89°11'11"W								
(G)	15.00' S00°48'49"E								
(H)	55.00' S89°11'11"W								
(J)	R=15519.92' L=116.32' CH=116.32' N16°44'53"W								

(U)	30.00' N00°20'43"W	(W)	10.00' N00°48'49"W	(AA)	EXISTING R.O.W. LINEPER BK.909 PC.270 REC'D 6-12-1929		
(V)	22.60' S89°11'11"W	(X)	5.00' N00°48'49"W				
		(Z)	43.27' S89°11'11"W				

POC 1MB0010TE-A
POC 1MB0010TE-B
POB 1MB0010
POB 1MB0012
POC 1MB0012TE

NOTES:
ALL DIMENSIONS ARE MEASURED UNLESS OTHERWISE SPECIFIED.

BEARINGS AND DISTANCES SHOWN HEREON REFERENCE THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983 (2011 ADJUSTMENT) "GRID".

ALL MEASURED AND CALCULATED DISTANCES ARE "GRID" NOT "GROUND". TO OBTAIN GROUND DISTANCES, DIVIDE GRID DISTANCES SHOWN BY THE COMBINATION FACTOR OF 0.999994691.

AREAS SHOWN ON THIS PLAT GROUND.

PROJECT COORDINATES
Illinois State Plane, East Zone, NAD 83(2011)

Pt.No.	Station	Offset	Northing	Easting
2094	202+05.20	0.57'LT.	1884825.094	947786.410
2095	202+75.20	0.60'LT.	1884826.112	947856.398
2097	495+31.11	59.51'RT.	1884392.246	947777.107
2099	205+07.18	0.68'LT.	1884829.488	948088.359
2106	206+96.18	0.74'LT.	1884832.237	948277.336
2110	207+06.18	0.75'LT.	1884832.383	948287.335
3059	207+05.93	29.26'RT.	1884802.382	948287.516
3060	206+95.93	29.26'RT.	1884802.237	948277.517
3061	205+06.94	29.32'RT.	1884799.487	948088.539
3062	202+74.97	29.41'RT.	1884796.112	947856.597
3063	202+06.01	29.43'RT.	1884795.109	947787.646
3065	200+96.75	36.47'RT.	1884786.520	947678.495
3065	499+38.01	82.74'RT.	1884786.520	947678.495
3066	200+96.76	71.47'RT.	1884751.523	947679.004
3066	499+04.39	72.99'RT.	1884751.523	947679.004
3067	200+75.05	44.02'RT.	1884778.663	947656.904
3067	499+36.81	59.79'RT.	1884778.663	947656.904
3068	202+74.89	40.00'RT.	1884785.516	947856.667
3069	202+15.00	40.00'RT.	1884784.666	947796.784
3070	202+15.00	55.00'RT.	1884769.668	947796.997
3071	201+60.00	55.00'RT.	1884768.887	947742.003
3071	499+02.57	138.31'RT.	1884768.887	947742.003
3072	201+07.15	156.45'RT.	1884666.700	947690.597
3072	498+19.89	59.27'RT.	1884666.700	947690.597
3073	495+29.40	65.00'RT.	1884392.321	947782.858
3074	496+50.00	65.00'RT.	1884506.691	947746.225
3075	496+50.03	70.00'RT.	1884508.221	947750.985
3076	498+16.67	70.00'RT.	1884666.763	947701.801
3077	498+95.35	145.25'RT.	1884764.011	947750.744
3078	498+82.43	189.74'RT.	1884764.668	947797.068
3079	202+15.00	50.00'RT.	1884774.667	947796.926
3080	202+74.81	50.00'RT.	1884775.516	947856.733
3081	494+00.00	65.00'RT.	1884269.925	947823.152
3082	494+00.00	59.62'RT.	1884268.220	947818.046
3083	497+94.10	70.00'RT.	1884645.182	947708.401
3084	205+06.85	40.00'RT.	1884788.810	948088.604
3085	205+06.73	55.00'RT.	1884773.810	948088.694
3086	206+95.85	40.00'RT.	1884791.494	948277.581
3087	206+95.60	70.00'RT.	1884761.494	948277.762
3088	207+05.85	40.00'RT.	1884791.636	948287.581
3090	207+05.60	70.00'RT.	1884761.636	948287.761
5002	500+00.33	0.23'RT.	1884822.042	947581.574
5003	498+08.53	15579.18'RT.	1889194.950	962535.218
5004	485+57.98	0.22'RT.	1883458.356	948049.870
9001	200+00.22	0.00'RT.	1884821.613	947581.458
9001	499+99.95	0.00'RT.	1884821.613	947581.458
9002	208+86.50	0.00'RT.	1884834.198	948467.646
9009	497+94.10	0.00'RT.	1884624.709	947641.462
9010	499+70.23	0.00'RT.	1884793.135	947589.950
9036	206+73.00	70.00'RT.	1884761.173	948255.164
9037	206+73.00	60.00'RT.	1884771.172	948255.022
9038	205+50.00	60.00'RT.	1884769.425	948132.034
9039	205+50.00	55.00'RT.	1884774.425	948131.963
9040	204+62.00	55.00'RT.	1884773.175	948043.972
9041	204+62.00	63.00'RT.	1884765.176	948044.086
9042	204+25.00	63.00'RT.	1884764.651	948007.090
9043	204+25.00	50.00'RT.	1884777.649	948006.905

CURVE DATA
EXISTING CENTERLINE
CURVE NO. 2 - IL RTE 47
Δ = 05°18'16"
D = 00°22'04"
R = 15579.92'
L = 1442.37'
T = 721.70'
E = 16.71'
PC (5002)
RP (5003)
PT (5004)

PROP. CURVE C1-47
PI STA. = 491+69.69
Δ = 4° 36' 49" (RT)
D = 0° 22' 09"
R = 15,517.38'
T = 625.09'
L = 1,249.50'
E = 12.59'
e = -----
T.R. = -----
S.E. RUN = -----
P.C. STA. = 485+44.60
P.T. STA. = 497+94.10

PARCEL NUMBER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA ACRES	EASEMENT AREA SQUARE FEET	PARCEL INDEX NUMBER
1MB0010 1MB0010TE-A 1MB0010TE-B	2.138	0.235	0.048 2084 sf	1.903	0.088 0.014	3819 599	11-20-300-026 11-20-300-013 11-20-300-030
1MB0011TE	1.239	0.000	0.000	1.239	0.016	705	11-20-300-028
1MB0012 1MB0012TE	1.541	0.216	0.160	1.325	0.069	3024	11-20-300-029
1MB0013 1MB0013TE	1.406	0.177	0.130	1.229	0.087	3790	11-20-300-038
1MB0014 1MB0014TE	1.445	0.009 407 s.f.	0.007 300 s.f.	1.436	0.007	300	11-20-300-039

LEGEND

SECTION CORNER
QUARTER SECTION CORNER
GRAPHIC SCALE FEET
SCALE: 1"= 50'

SECTION / QUARTER SECTION LINE
PLATTED LOT LINES
PROPERTY (DEED) LINE
APPARENT PROPERTY LINE
EXISTING CENTERLINE
PROPOSED CENTERLINE
EXISTING RIGHT OF WAY LINE
PROPOSED RIGHT OF WAY LINE
EXISTING EASEMENT
PROPOSED EASEMENT
EXISTING ACCESS CONTROL LINE
PROPOSED ACCESS CONTROL LINE
129.32' MEASURED DIMENSION
129.32' (COMP) COMPUTED DIMENSION
(129.32') RECORDED DIMENSION
EXISTING BUILDING

BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM, NAD83 (2011 ADJUSTMENT), EAST ZONE.

- IRON PIPE OR ROD FOUND
- ⊕ "MAG" NAIL SET
- \+ CUT CROSS FOUND OR SET
- ● 5 / 8" REBAR SET
- ● T1 T2 T3 — THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- ● BT1 BT2 BT3 — THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION. BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- ■ — STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- ■ M — STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 2135 (TO BE SET BY OTHERS)
- RIGHT OF WAY STAKING PROPOSED TO BE SET

STATE OF ILLINOIS)
)SS
COUNTY OF WILL)

THIS IS TO CERTIFY THAT I, KENNETH J. PESAVENTO, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, (WE, RUETTIGER, TONELLI & ASSOCIATES, AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-001251.) HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 20, TOWNSHIP 39 NORTH, RANGE 7 EAST OF THE THIRD PRINCIPAL MERIDIAN, KANE COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT _____, ILLINOIS THIS __ DAY OF _____ 20__ A.D.

_____
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 3425
LICENSE EXPIRATION DATE: 11-30-2018

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

Ruettiger, Tonelli & Associates, Inc.
Surveyors • Engineers • Planners • Landscape Architects • G.I.S. Consultants
129 CAPISTA DRIVE - SHOREWOOD, ILLINOIS 60404
PH. (815) 744-6600 FAX (815) 744-6181
website: www.ruettigertonelli.com

R.T. & A. Dwg. No.: 2016-1131.00

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
(IL 47)

LIMITS: MAIN STREET (S. OF ELBURN) COUNTY: KANE
SECTION: JOB NO.: R-91-004-12
STA. 200+00.22 TO STA. 207+05.93
SCALE: 1"=50' SHEET 8 OF 9 SHEETS

BUREAU OF LAND ACQUISITION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196

IDOT USE ONLY
RECEIVED
APR 12 2017
PLATS & LEGALS

REVISION DATE: __/__/___ REVISION MADE BY: _____

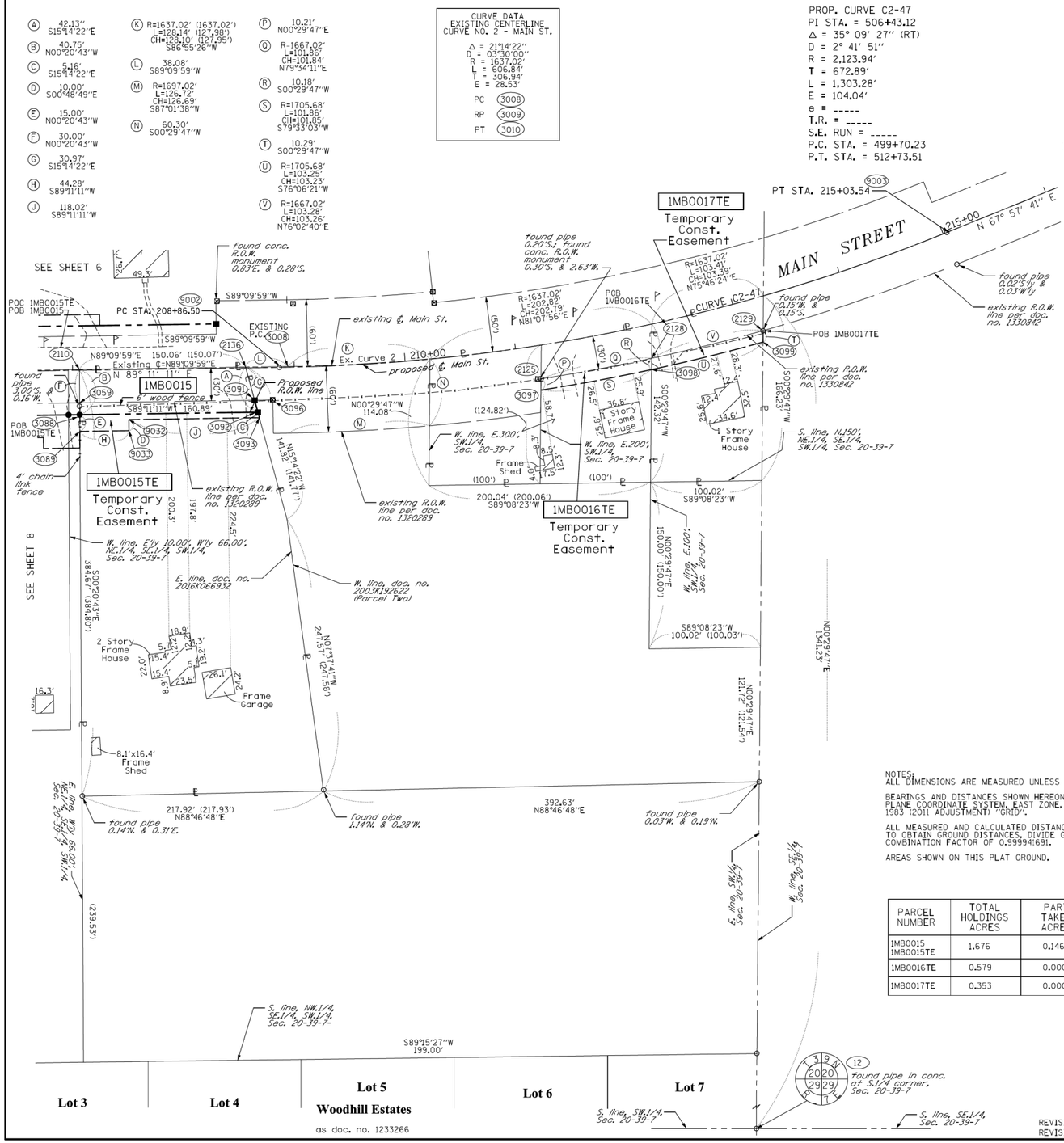
PLAN / PROFILE
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE
BM. NOTES
STRUCTURE NOTATNS CHKD

FILE NAME = P:\2015\05958 IDOT Dasil IL Route 47 at Main S of Elburn (PTB 171-041)\04-CADD\01 CADD\Sheets\D1607121-sht-ROW 07.dgn

USER NAME = mlopez2	DESIGNED -	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**RIGHT-OF-WAY PLAN**	
FILE NAME =	DRAWN -	REVISED -			
PLOT SCALE = 2.0000 ' / in.	CHECKED -	REVISED -			
PLOT DATE = 1/28/2019	DATE - 1/28/19	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	107N-4	KANE	288	134
		CONTRACT NO. 60T21		
	ILLINOIS FED. AID PROJECT			

PART OF THE SOUTHEAST QUARTER AND SOUTHWEST QUARTER OF SECTION 20, TWP. 39N., R. 7E. OF THE 3RD. P.M., IN KANE COUNTY, ILLINOIS.



LEGEND

SECTION CORNER
QUARTER SECTION CORNER

- SECTION / QUARTER SECTION LINE
- PLATTED LOT LINES
- PROPERTY (DEED) LINE
- APPARENT PROPERTY LINE
- EXISTING CENTERLINE
- PROPOSED CENTERLINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- EXISTING EASEMENT
- PROPOSED EASEMENT
- EXISTING ACCESS CONTROL LINE
- PROPOSED ACCESS CONTROL LINE
- MEASURED DIMENSION
- COMPUTED DIMENSION
- RECORDED DIMENSION
- EXISTING BUILDING

129.32' / 129.32' (COMP) / (129.32')

N

GRAPHIC SCALE FEET 0 50

SCALE: 1"= 50'

PROJECT COORDINATES
Illinois State Plane, East Zone, NAD 83(2011)

Pt.No.	Station	Offset	Northing	Easting
12	N/A	N/A	1883557.464	948892.232
2110	207+06.18	0.75'LT.	1884832.383	948287.335
2125	211+18.49	29.92'RT.	1884824.039	948703.212
2128	212+18.55	30.07'RT.	1884842.476	948803.370
2129	213+19.99	30.12'RT.	1884867.380	948903.583
2136	208+56.24	0.80'LT.	1884834.566	948437.380
3008	208+94.32	0.79'LT.	1884835.120	948475.455
3009	213+10.62	1636.90'LT.	1886471.967	948451.637
3010	215+01.20	0.08'LT.	1884954.932	949066.811
3088	207+05.85	40.00'RT.	1884791.636	948287.581
3089	207+05.72	55.00'RT.	1884776.636	948287.671
3091	208+63.96	29.20'RT.	1884804.681	948445.522
3092	208+66.74	40.00'RT.	1884793.921	948448.453
3093	208+68.02	45.00'RT.	1884788.939	948449.810
3096	208+80.41	29.19'RT.	1884804.921	948461.973
3097	211+16.88	40.00'RT.	1884813.828	948703.124
3098	212+16.36	40.00'RT.	1884832.300	948803.282
3099	213+17.18	40.00'RT.	1884857.089	948903.494
9002	208+86.50	0.00'RT.	1884834.198	948467.646
9003	215+03.54	0.00'RT.	1884955.739	949069.010
9032	207+50.00	45.00'RT.	1884787.264	948331.801
9033	207+50.00	55.00'RT.	1884777.265	948331.943

BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM,NAD83 (2011 ADJUSTMENT),EAST ZONE.

- o IRON PIPE OR ROD FOUND
- ⊕ 'MAG' NAIL SET
- \+ CUT CROSS FOUND OR SET
- ● 5 / 8" REBAR SET
- ● T1, T2, T3 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- ● BT1, BT2, BT3 THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION. BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- ■ STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- ■ M STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- ◒ PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 2135 (TO BE SET BY OTHERS)
- □ RIGHT OF WAY STAKING PROPOSED TO BE SET

STATE OF ILLINOIS)
)SS
COUNTY OF WILL)

THIS IS TO CERTIFY THAT I, KENNETH J. PESAVENTO, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, (WE, RUETTIGER, TONELLI & ASSOCIATES, AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-001251,) HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 20, TOWNSHIP 39 NORTH, RANGE 7 EAST OF THE THIRD PRINCIPAL MERIDIAN, KANE COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT _____, ILLINOIS THIS __ DAY OF _____ 20__ A.D.

_____
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 3425
LICENSE EXPIRATION DATE: 11-30-2018

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

NOTES:
ALL DIMENSIONS ARE MEASURED UNLESS OTHERWISE SPECIFIED.

BEARINGS AND DISTANCES SHOWN HEREON REFERENCE THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983 (2011 ADJUSTMENT) "GRID".

ALL MEASURED AND CALCULATED DISTANCES ARE "GRID" NOT "GROUND". TO OBTAIN GROUND DISTANCES, DIVIDE GRID DISTANCES SHOWN BY THE COMBINATION FACTOR OF 0.99994'691.

AREAS SHOWN ON THIS PLAT GROUND.

PARCEL NUMBER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA ACRES	EASEMENT AREA SQUARE FEET	PARCEL INDEX NUMBER
1MB0015 1MB0015TE	1.676	0.146	0.106	1.530	0.029	1250	11-20-300-056
1MB0016TE	0.579	0.000	0.000	0.579	0.023	1018	11-20-300-019
1MB0017TE	0.353	0.000	0.000	0.353	0.023	1022	11-20-300-020

REVISION DATE: 4/20/2018 REVISION MADE BY: TW
REVISION DATE: 4/7/2017 REVISION MADE BY: TW

IDOT USE ONLY
RECEIVED
APR 20 2018
PLATS & LEGALS

Ruettiger, Tonelli & Associates, Inc.
Surveyors • Engineers • Planners • Landscape Architects • G.I.S. Consultants
129 CAPISTA DRIVE - SHOREWOOD, ILLINOIS 60404
PH. (815) 744-6600 FAX (815) 744-6101
website: www.ruettigertonelli.com

R.T. & A. Dwg. No.: 2016-1131.00

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
(IL 47)

LIMITS: MAIN STREET (S. OF ELBURN) COUNTY: KANE
SECTION: JOB NO.: R-91-004-12
STA. 207+05.72 TO STA. 213+74.60
SCALE: 1"=50' SHEET 9 OF 9 SHEETS

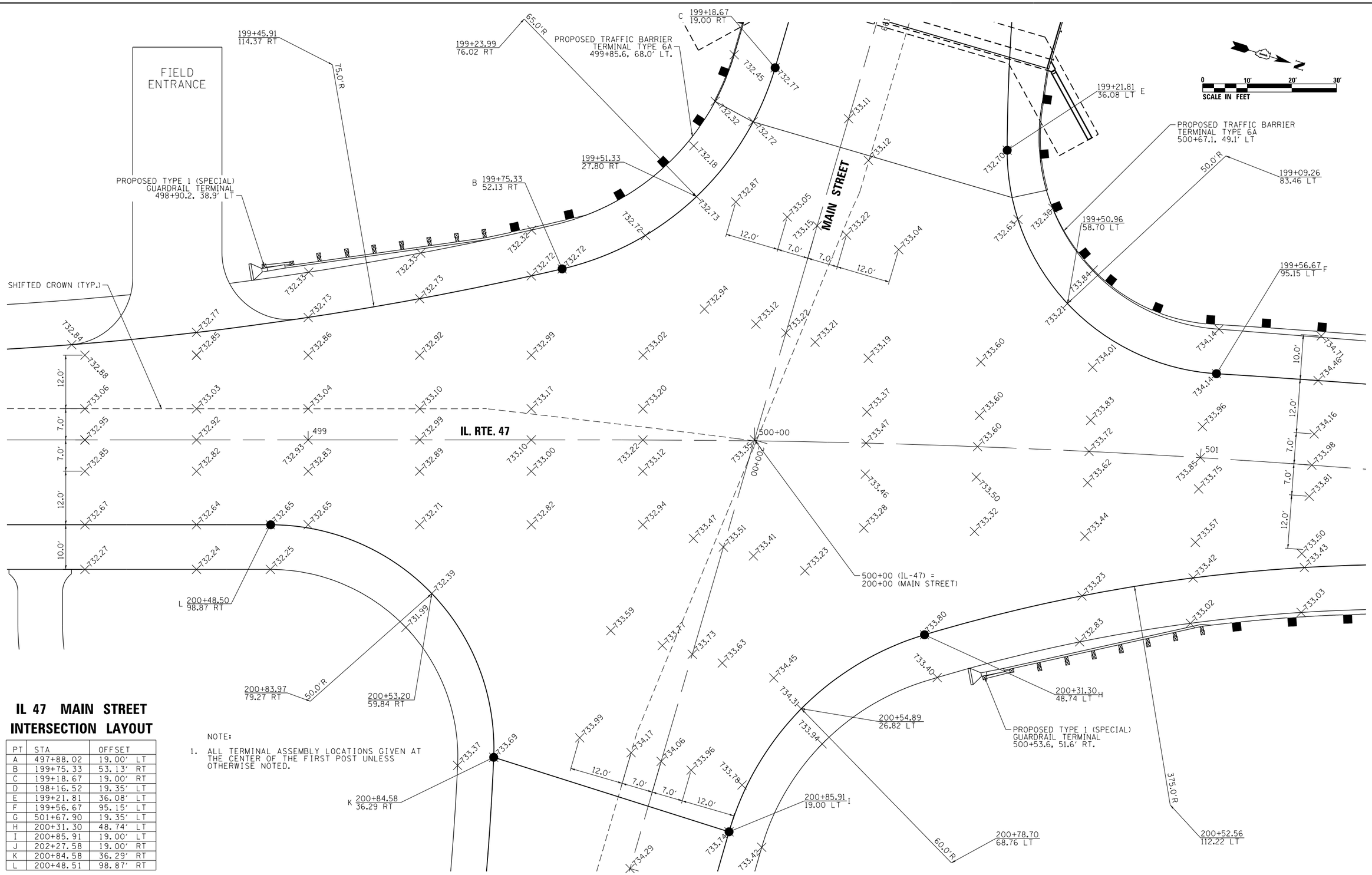
BUREAU OF LAND ACQUISITION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196

PLAN: SURVEYED, PLOTTED, DRAWN, CHECKED, BM: NOTED, NOTE BOOK, NO.: _____, BY, DATE
PROFILE: SURVEYED, PLOTTED, DRAWN, CHECKED, BM: NOTED, STRUCTURE NO(S).: _____, BY, DATE

FILE NAME = P:\2015\09558 IDOT Dist IL Route 47 at Main S of Elburn (PTB 171-041)\04-CADD\01 CADD Sheets\D160721-sht-ROW 08.dgn

USER NAME = mlopez2	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
FILE NAME =	DRAWN -	REVISED -	RIGHT-OF-WAY PLAN
PLOT SCALE = 2.0000 ' / in.	CHECKED -	REVISED -	SCALE: SHEET NO. OF SHEETS STA. TO STA.
PLOT DATE = 1/28/2019	DATE - 1/28/19	REVISED -	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	107N-4	KANE	288	135
		CONTRACT NO. 60T21		
	ILLINOIS FED. AID PROJECT			



IL 47 MAIN STREET INTERSECTION LAYOUT

PT	STA	OFFSET
A	497+88.02	19.00' LT
B	199+75.33	53.13' RT
C	199+18.67	19.00' RT
D	198+16.52	19.35' LT
E	199+21.81	36.08' LT
F	199+56.67	95.15' LT
G	501+67.90	19.35' LT
H	200+31.30	48.74' LT
I	200+85.91	19.00' LT
J	202+27.58	19.00' RT
K	200+84.58	36.29' RT
L	200+48.51	98.87' RT

NOTE:

1. ALL TERMINAL ASSEMBLY LOCATIONS GIVEN AT THE CENTER OF THE FIRST POST UNLESS OTHERWISE NOTED.

PLAN: SURVEYED, PLOTTED, ALIGNMENT CHECKED, RT. OF WAY CHECKED, CADD FILE NAME, NOTE BOOK, NO., BY, DATE

PROFILE: SURVEYED, PLOTTED, GRADES CHECKED, E.M. NOTED, STRUCTURE NOTATNS CHKD, NOTE BOOK, NO., BY, DATE

FILE NAME = P:\2015\05558 IDOT Dist IL Route 47 at Main S of Elburn (P18 171-041)\04-CADD\01 CADD_Sheets\D168721-ant-Intersection Plan.dgn

USER NAME = yayyoub	DESIGNED -	REVISED -	
FILE NAME =	DRAWN -	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 3/6/2019	DATE - 1/28/19	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERSECTION DESIGN PLAN

SCALE: | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

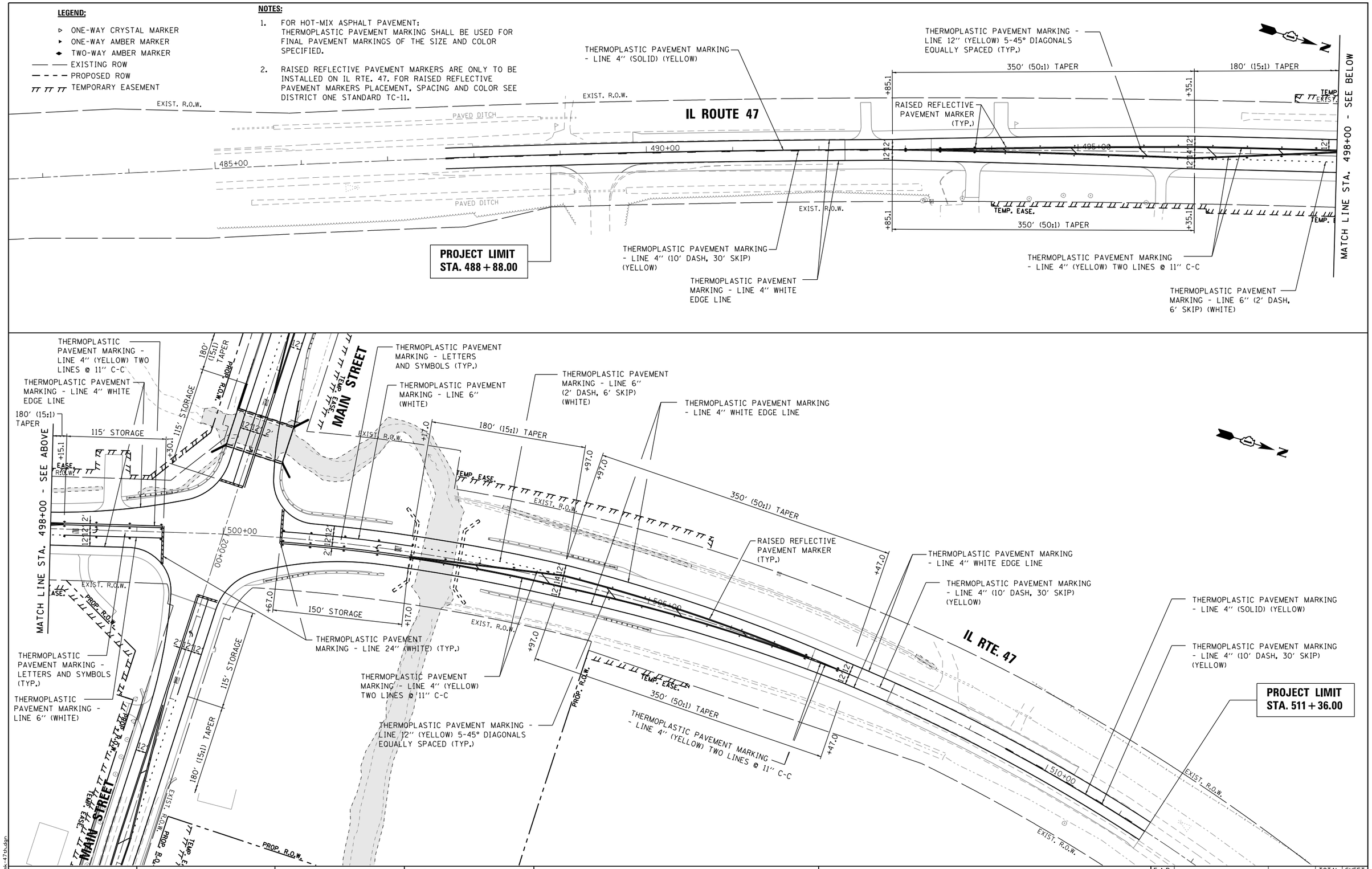
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	107N-4	KANE	288	136
		CONTRACT NO. 60T21		
		ILLINOIS FED. AID PROJECT		

LEGEND:

- ▹ ONE-WAY CRYSTAL MARKER
- ▸ ONE-WAY AMBER MARKER
- ◆ TWO-WAY AMBER MARKER
- —— —— EXISTING ROW
- — — — PROPOSED ROW
- 77 77 77 TEMPORARY EASEMENT

NOTES:

1. FOR HOT-MIX ASPHALT PAVEMENT: THERMOPLASTIC PAVEMENT MARKING SHALL BE USED FOR FINAL PAVEMENT MARKINGS OF THE SIZE AND COLOR SPECIFIED.
2. RAISED REFLECTIVE PAVEMENT MARKERS ARE ONLY TO BE INSTALLED ON IL RTE. 47. FOR RAISED REFLECTIVE PAVEMENT MARKERS PLACEMENT, SPACING AND COLOR SEE DISTRICT ONE STANDARD TC-11.



DB STERLIN CONSULTANTS, INC.
123 N. WACKER DRIVE, SUITE 2000
CHICAGO, ILLINOIS 60606
TEL. (312)857-1006 FAX. (312)857-1056

USER NAME = JKando	DESIGNED - DPW	REVISED -
	DRAWN - DPW	REVISED -
PLOT SCALE = NTS	CHECKED - MTM	REVISED -
PLOT DATE = 3/6/2019	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLAN – IL ROUTE 47
IL ROUTE 47 AT MAIN STREET

SCALE: 1" = 50' | SHEET 1 OF 2 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	107N-4	KANE	288	137
		CONTRACT NO. 60T21		
	ILLINOIS FED. AID PROJECT			

D60T21-sht-pmk-47th.dgn

NOTES:

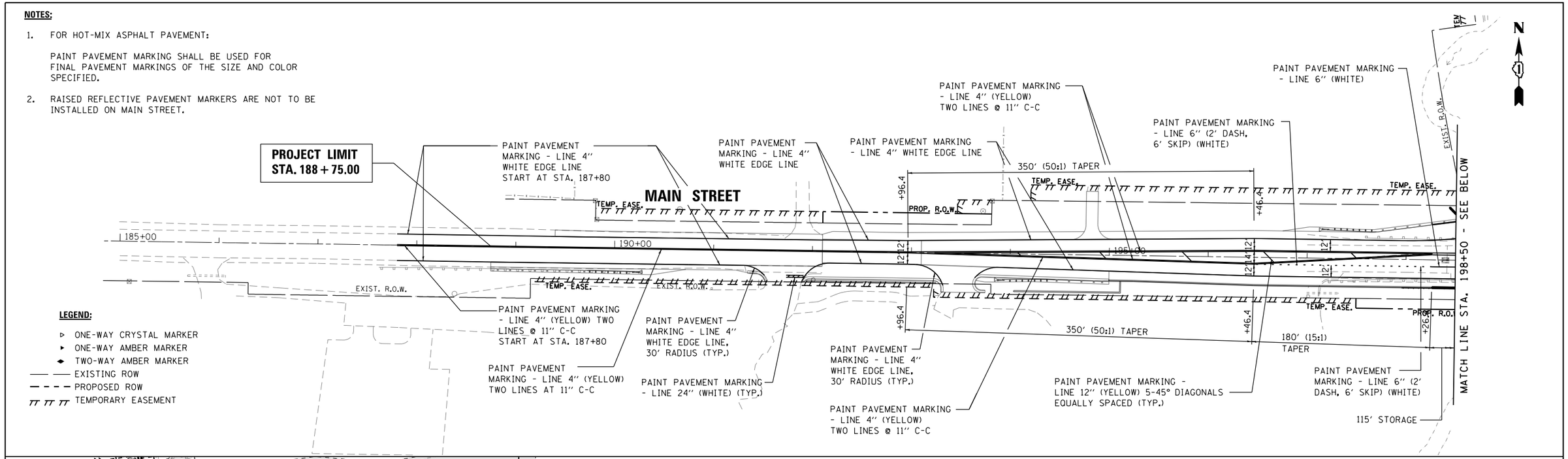
1. FOR HOT-MIX ASPHALT PAVEMENT:

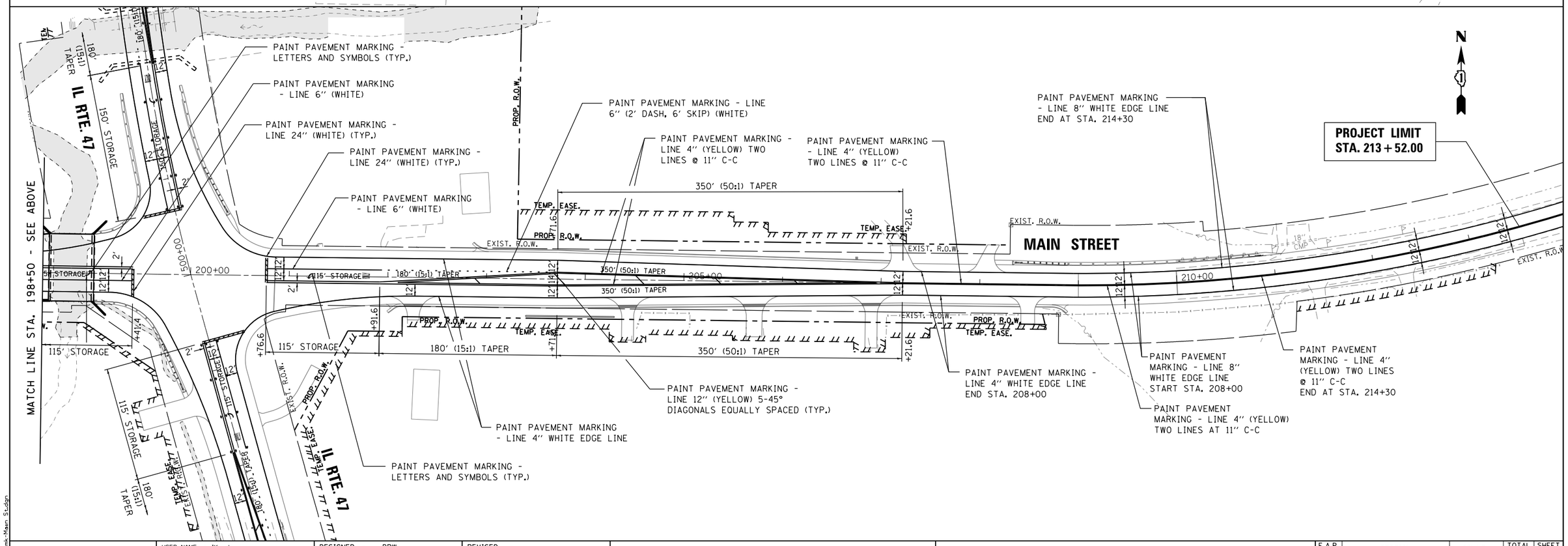
   PAINT PAVEMENT MARKING SHALL BE USED FOR FINAL PAVEMENT MARKINGS OF THE SIZE AND COLOR SPECIFIED.

2. RAISED REFLECTIVE PAVEMENT MARKERS ARE NOT TO BE INSTALLED ON MAIN STREET.

LEGEND:

- ▷ ONE-WAY CRYSTAL MARKER
- ▸ ONE-WAY AMBER MARKER
- ◆ TWO-WAY AMBER MARKER
- —— —— EXISTING ROW
- — — — PROPOSED ROW
- ᚏ ᚏ ᚏ TEMPORARY EASEMENT





DB STERLIN CONSULTANTS, INC. 123 N. WACKER DRIVE SUITE 2000 CHICAGO, ILLINOIS 60606 TEL: (312)857-1006 FAX: (312)857-1056	USER NAME = JKando	DESIGNED - DPW	REVISED -
		DRAWN - DPW	REVISED -
	PLOT SCALE = NTS	CHECKED - MTM	REVISED -
	PLOT DATE = 3/6/2019	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLAN – MAIN STREET
IL ROUTE 47 AT MAIN STREET

SCALE: 1" = 50' | SHEET 2 OF 2 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	107N-4	KANE	288	138
		CONTRACT NO. 60T21		
	ILLINOIS FED. AID PROJECT			

D1607121-sht-pmk-Main Stdgn

LEGEND:

- EXISTING ROW
- PROPOSED ROW
- TEMPORARY EASEMENT
- NEW PROPOSED SIGN
- REMOVE EXISTING SIGN, REPLACE IN-KIND WITH NEW
- EXISTING SIGN TO BE REMOVED

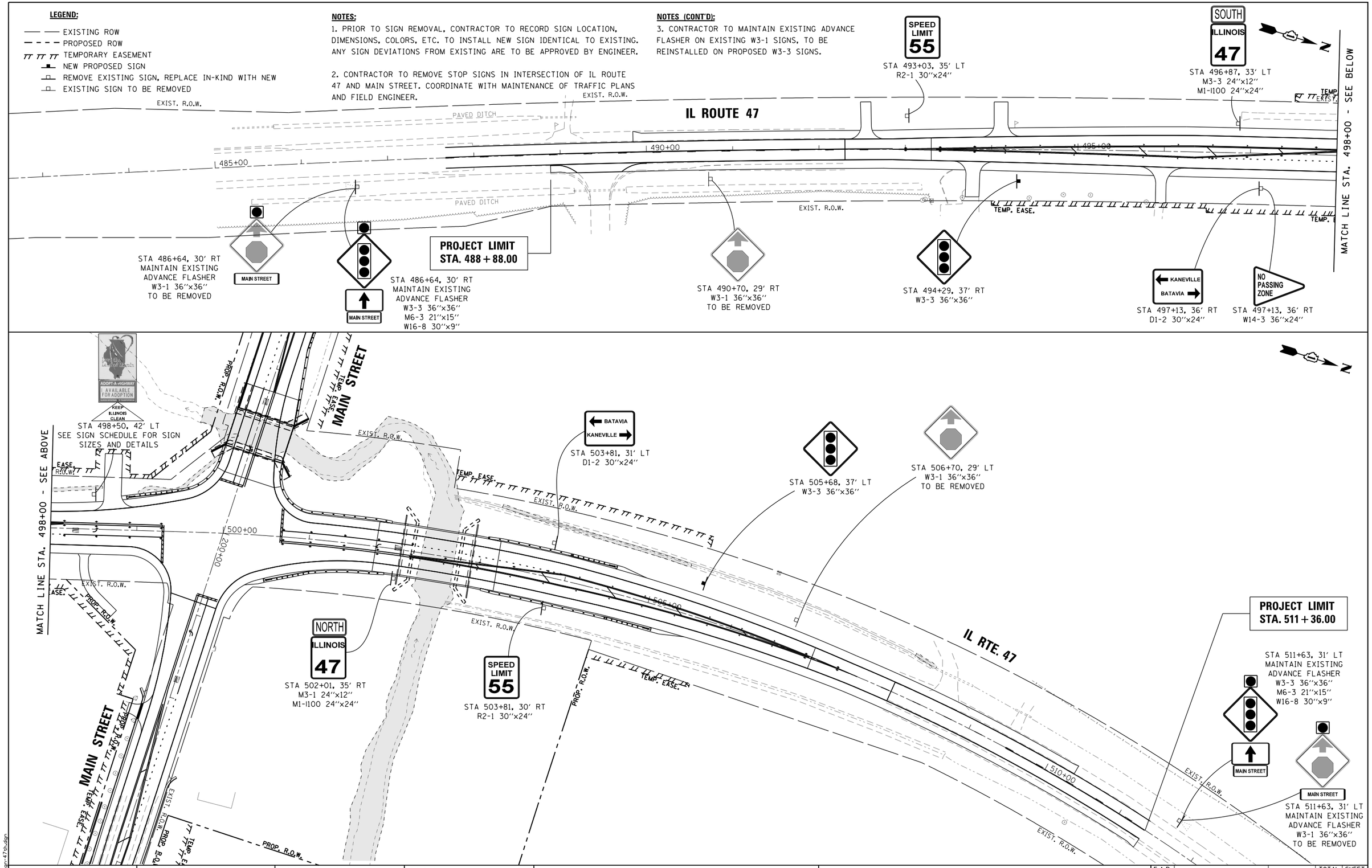
NOTES:

1. PRIOR TO SIGN REMOVAL, CONTRACTOR TO RECORD SIGN LOCATION, DIMENSIONS, COLORS, ETC. TO INSTALL NEW SIGN IDENTICAL TO EXISTING. ANY SIGN DEVIATIONS FROM EXISTING ARE TO BE APPROVED BY ENGINEER.

2. CONTRACTOR TO REMOVE STOP SIGNS IN INTERSECTION OF IL ROUTE 47 AND MAIN STREET. COORDINATE WITH MAINTENANCE OF TRAFFIC PLANS AND FIELD ENGINEER.

NOTES (CONT'D):

3. CONTRACTOR TO MAINTAIN EXISTING ADVANCE FLASHER ON EXISTING W3-1 SIGNS, TO BE REINSTALLED ON PROPOSED W3-3 SIGNS.



USER NAME = JKando	DESIGNED - DPW	REVISED -	
	DRAWN - DPW	REVISED -	
PLOT SCALE = NTS	CHECKED - MTM	REVISED -	
PLOT DATE = 3/6/2019	DATE -	REVISED -	

DB STERLIN CONSULTANTS, INC.
123 N. WACKER DRIVE SUITE 2000
CHICAGO, ILLINOIS 60606
TEL. (312)857-1006 FAX. (312)857-1056

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGNING PLAN – IL ROUTE 47
IL ROUTE 47 AT MAIN STREET

SCALE: 1" = 50' | SHEET 1 OF 2 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	107N-4	KANE	288	139
		CONTRACT NO. 60T21		
	ILLINOIS FED. AID PROJECT			

D160T21-sht-sign-47th.dgn

LEGEND:

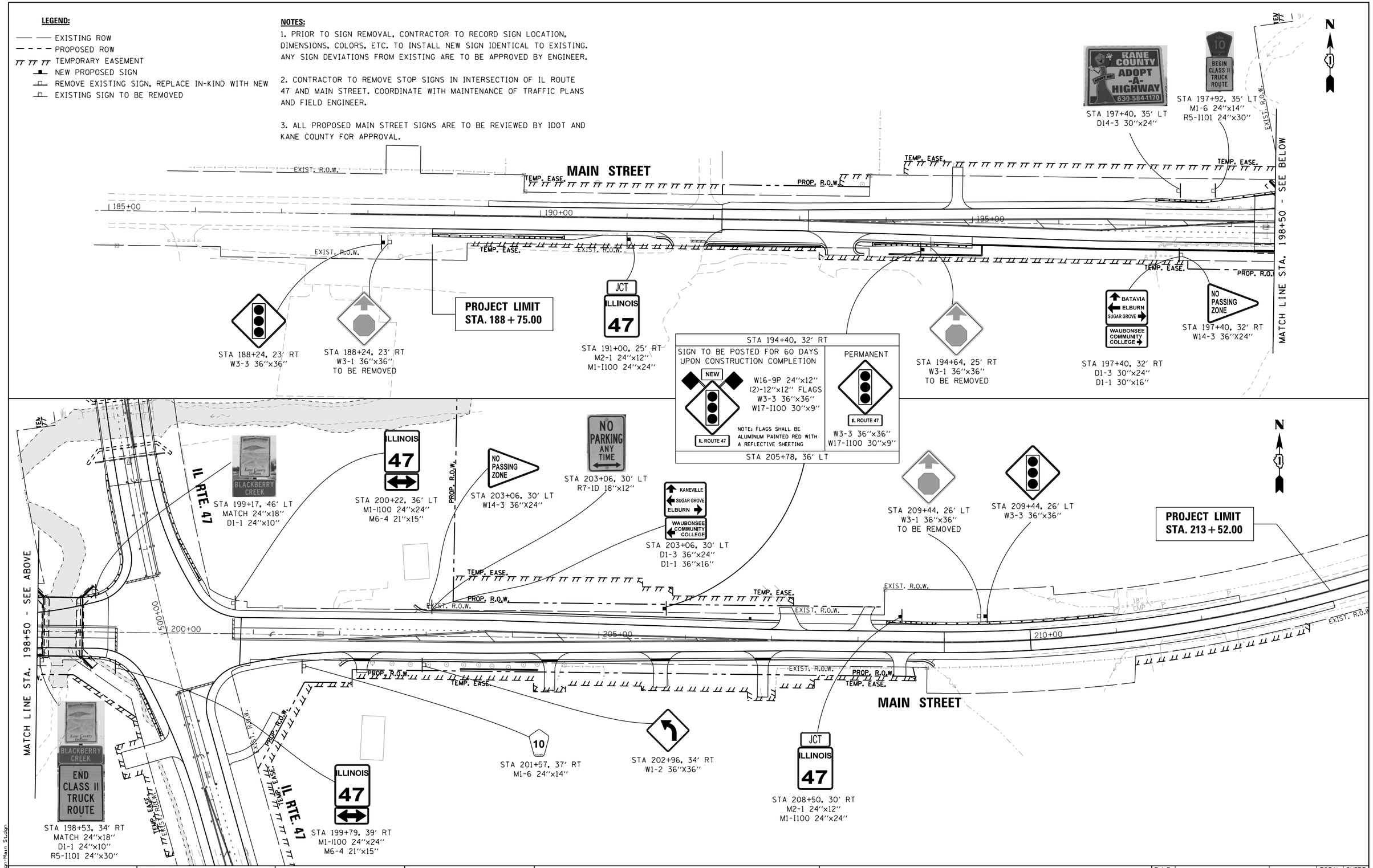
- EXISTING ROW
- PROPOSED ROW
- TEMPORARY EASEMENT
- NEW PROPOSED SIGN
- REMOVE EXISTING SIGN, REPLACE IN-KIND WITH NEW
- EXISTING SIGN TO BE REMOVED

NOTES:

1. PRIOR TO SIGN REMOVAL, CONTRACTOR TO RECORD SIGN LOCATION, DIMENSIONS, COLORS, ETC. TO INSTALL NEW SIGN IDENTICAL TO EXISTING. ANY SIGN DEVIATIONS FROM EXISTING ARE TO BE APPROVED BY ENGINEER.

2. CONTRACTOR TO REMOVE STOP SIGNS IN INTERSECTION OF IL ROUTE 47 AND MAIN STREET. COORDINATE WITH MAINTENANCE OF TRAFFIC PLANS AND FIELD ENGINEER.

3. ALL PROPOSED MAIN STREET SIGNS ARE TO BE REVIEWED BY IDOT AND KANE COUNTY FOR APPROVAL.



DB STERLIN CONSULTANTS, INC. 123 N. WACKER DRIVE, SUITE 2000 CHICAGO, ILLINOIS 60606 TEL: (312)857-1006 FAX: (312)857-1056	USER NAME = JKando	DESIGNED - DPW	REVISED -
		DRAWN - DPW	REVISED -
	PLOT SCALE = NTS	CHECKED - MTM	REVISED -
	PLOT DATE = 3/6/2019	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGNING PLAN – MAIN STREET
IL ROUTE 47 AT MAIN STREET

SCALE: 1" = 50' | SHEET 2 OF 2 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	107N-4	KANE	288	140
		CONTRACT NO. 60T21		
		ILLINOIS FED. AID PROJECT		

D:\60T21-sht-sign-Main St.dgn

REMOVE SIGN SCHEDULE FOR RTE 47

STATION	OFFSET		SIGN	REMOVE SIGN PANEL ASSEMBLY - TYPE A (72400100)	REMOVE SIGN PANEL ASSEMBLY - TYPE B (72400200)
486+64.00	30	RT	W3-1	1	
486+64.00	30	RT	W16-8	-	
490+70.00	29	RT	W3-1	1	
493+03.00	35	LT	R2-1	1	
496+87.00	33	LT	M3-3	1	
496+87.00	33	LT	M1-I100	-	
497+13.00	36	RT	D1-2		1
497+13.00	36	RT	W14-3		-
498+50.00	42	LT	I1-I107A		1
502+01.00	25	RT	M3-1	1	
502+01.00	25	RT	M1-I100	-	
503+81.00	30	RT	R2-1	1	
503+81.00	31	LT	D1-2	1	
506+70.00	29	LT	W3-1	1	
511+63.00	31	LT	W3-1	1	
511+63.00	31	LT	W16-8	-	

REMOVE SIGN SCHEDULE FOR MAIN ST

STATION	OFFSET		SIGN	REMOVE SIGN PANEL ASSEMBLY - TYPE A (72400100)	REMOVE SIGN PANEL ASSEMBLY - TYPE B (72400200)
188+24.00	23	RT	W3-1	1	
194+64.00	25	RT	W3-1	1	
197+40.00	27	LT	D14-3	1	
197+40.00	25	RT	D1-3		1
197+40.00	25	RT	D1-1		-
197+40.00	25	RT	W14-3		-
197+92.00	27	LT	M1-6		1
197+92.00	27	LT	R5-I101		-
198+53.00	24	RT	MATCH		1
198+53.00	24	RT	D1-1		-
198+53.00	24	RT	R5-I102		-
199+17.00	24	LT	MATCH	1	
199+17.00	24	LT	D1-1	-	
199+79.00	39	RT	M1-I100		1
199+79.00	39	RT	M6-4		-
200+22.00	25	LT	M1-I100		1
200+22.00	25	LT	M6-4		-
201+57.00	22	RT	M1-6	1	
202+96.00	22	RT	W1-2	1	
203+06.00	30	LT	W14-3		1
203+06.00	30	LT	R7-1D		-
203+06.00	30	LT	D1-3		-
203+06.00	30	LT	D1-1		-
209+44.00	26	LT	W3-1	1	

D160721-sht-sign-sched.dgn

DB STERLIN CONSULTANTS, INC.
123 N. WACKER DRIVE SUITE 2000
CHICAGO, ILLINOIS 60606
TEL. (312)857-1006 FAX. (312)857-1066

USER NAME = HMartens	DESIGNED - DPW	REVISED -
	DRAWN - DPW	REVISED -
PLOT SCALE = NTS	CHECKED - MTM	REVISED -
PLOT DATE = 1/25/2019	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGN SCHEDULE OF QUANTITIES
IL ROUTE 47 AT MAIN STREET

SCALE: 1" = 50' | SHEET 1 OF 2 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	107N-4	KANE	288	141
		CONTRACT NO. 60T21		
	ILLINOIS	FED. AID PROJECT		

SIGN SCHEDULE

STATION	OFFSET	SIGN	SIGN PANEL - TYPE 1 SQ FT (72000100)	SIGN PANEL - TYPE 2 SQ FT (72000200)	NUMBER OF POLES	METAL POST TYPE A TOTAL LENGTH (FT) (72900100)	METAL POST TYPE B TOTAL LENGTH (FT) (72900200)
486+64.00	30 RT	W3-3	9.0		2.0	30.0	
486+64.00	30 RT	W16-8	1.9		-	-	
486+64.00	30 RT	M6-3	2.2		-	-	
493+03.00	35 LT	R2-1	5.0		1.0	13.0	
494+29.00	37 RT	W3-3	9.0		1.0		15.2
496+87.00	33 LT	M3-3	2.0		1.0		14.0
496+87.00	33 LT	M1-I100	4.0		-		
497+13.00	36 RT	D1-2	5.0		1.0		13.0
497+13.00	36 RT	W14-3	2.8		-		
498+50.00	42 LT	LINCOLN	7.5		2.0		30.0
498+50.00	42 LT	AVAILABLE	3.8		-		
498+50.00	42 LT	CLEANUP	9.0		-		
502+01.00	35 RT	M3-1	2.0		1.0		14.0
502+01.00	35 RT	M1-I100	4.0		-		
503+81.00	31 LT	D1-2	5.0		1.0	12.5	
503+81.00	30 RT	R2-1	5.0		1.0	13.0	
505+68.00	37 LT	W3-3	9.0		1.0		15.2
511+63.00	31 LT	W3-3	9.0		2.0	30.0	
511+63.00	31 LT	M6-3	2.2		-	-	
511+63.00	31 LT	W16-8	1.9		-	-	
188+24.00	23 RT	W3-3	9.0		1.0		15.2
191+00.00	25 RT	M2-1	2.0		1.0	14.0	
191+00.00	25 RT	M1-I100	4.0		-		
194+40.00	32 RT	W3-3	9.0		1.0		16.0
194+40.00	32 RT	W17-I100	1.9		-		
197+40.00	35 LT	D14-3	5.0		1.0	12.5	
197+40.00	32 RT	D1-3	5.0		1.0		14.0
197+40.00	32 RT	D1-1BR	3.3		-		
197+40.00	32 RT	W14-3	2.8		-		
197+92.00	35 LT	M1-6	2.3		1.0		15.0
197+92.00	35 LT	R5-I101	5.0		-		
198+53.00	34 RT	MATCH	3.0		1.0		15.0
198+53.00	34 RT	D1-1	1.7		-		
198+53.00	34 RT	R5-I101	5.0		-		
199+17.00	46 LT	MATCH	3.0		1.0	14.3	
199+17.00	46 LT	D1-1	1.7		-		
199+79.00	39 RT	M1-I100	4.0		1.0		14.3
199+79.00	39 RT	M6-4	2.2		-		
200+22.00	36 LT	M1-I100	4.0		1.0		14.3
200+22.00	36 LT	M6-4	2.2		-		
201+57.00	37 RT	M1-6	2.3		1.0	12.5	
202+96.00	34 RT	W1-2	9.0		1.0		15.2
203+06.00	30 LT	W14-3	2.8		2.0	14.5	
203+06.00	30 LT	R7-1D	1.5		-		
203+06.00	30 LT	D1-3	6.0		-		
203+06.00	30 LT	D1-1	4.0		-		
205+78.00	36 LT	W3-3	9.0		1.0		16.0
205+78.00	36 LT	W17-I100	1.9		-		
209+44.00	26 LT	W3-3	9.0		1.0		15.2

NOTES:

1. PRIOR TO SIGN REMOVAL, CONTRACTOR TO RECORD SIGN LOCATION, DIMENSIONS, COLORS, ETC. TO INSTALL NEW SIGN IDENTICAL TO EXISTING. ANY SIGN DEVIATIONS FROM EXISTING ARE TO BE APPROVED BY ENGINEER.

2. ALL NEW SIGNS ARE TO BE IN ACCORDANCE WITH CURRENT MUTCD STANDARDS.

3. ALL PROPOSED MAIN STREET SIGNS ARE TO BE REVIEWED BY IDOT AND KANE COUNTY FOR APPROVAL.

4. CONTRACTOR TO MAINTAIN EXISTING ADVANCE FLASHER ON EXISTING W3-1 SIGNS. EXISTING ADVANCE FLASHER TO BE REINSTALLED ON PROPOSED W3-3 SIGNS. REFER TO REMOVAL PLAN AND SIGNING PLAN FOR DETAILS.

5. RED FLAGS AND "NEW" SIGN PLAQUE (W16-9P) ARE TO BE INSTALLED ON W3-3 SIGNS LOCATED AT STATIONS 194+40 AND 205+78 FOR 60 DAYS UPON CONSTRUCTION COMPLETION. RED FLAGS AND "NEW" PLAQUE ARE TO BE REMOVED BY CONTRACTOR AS APPROVED BY IDOT AND KANE COUNTY. ALL COSTS ASSOCIATED WITH MATERIALS, LABOR, AND EQUIPMENT FOR THESE TEMPORARY SIGNS ARE INCIDENTAL TO CONSTRUCTION.

6. CONTRACTOR TO MAINTAIN ALL HOUSE NUMBER SIGNS WITHIN THE PROJECT LIMITS AT ALL TIMES. IF NEEDED, SIGNS ARE TO BE TEMPORARILY AND/OR PERMANENTLY RELOCATED AND INSTALLED AT APPROVED LOCATIONS. ALL COSTS, INCLUDING MATERIALS, LABOR, AND EQUIPMENT, ARE INCIDENTAL TO CONSTRUCTION.

LOVE THE LAND OF LINCOLN SIGN DETAIL
NO SCALE

NO SCALE
LAND OF LINCOLN 36"x30"
AVAILABLE 30"x18"
KEEP ILLINOIS CLEAN 36"x36"

NOTES:

1. "KEEP ILLINOIS CLEAN" AND "CLEANUP CREW WORKING" SIGN SHALL HAVE HINGE/FOLD MATCHING EXISTING SIGN ASSEMBLY. CONTRACTOR TO MATCH EXISTING SIGN CHARACTERISTICS UNLESS OTHERWISE APPROVED.

NO SCALE
LAND OF LINCOLN 36"x30"
AVAILABLE 30"x18"
CLEANUP CREW WORKING 36"x36"

DBS STERLIN CONSULTANTS, INC.
123 N. WACKER DRIVE SUITE 2000
CHICAGO, ILLINOIS 60606
TEL. (312)857-1006 FAX. (312)857-1066

USER NAME = JKando	DESIGNED - DPW	REVISED -	
	DRAWN - DPW	REVISED -	
PLOT SCALE = NTS	CHECKED - MTM	REVISED -	
PLOT DATE = 3/6/2019	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGN SCHEDULE OF QUANTITIES
IL ROUTE 47 AT MAIN STREET

SCALE: 1" = 50' | SHEET 2 OF 2 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	107N-4	KANE	288	142
		CONTRACT NO. 60T21		
	ILLINOIS	FED. AID PROJECT		

DI60T21-sht-sign-sched.dgn

SCHEDULE OF PERENNIALS

KEY/ TYPE	*SCIENTIFIC NAME*	COMMON NAME	SIZE	SPACING	UNITS (OF 100 EACH) BUFFER TO CREEK NEAR WETLAND #2	BUFFER TO CREEK - MAIN STREET	BUFFER TO CREEK - SW QUAD	RAIN GARDEN - SE QUAD	BUFFER TO CREEK NEAR WETLAND #2	BUFFER TO CREEK NEAR WETLAND #5	**SUBTOTALS (BY SPECIES)**
	Landscape Plan Sheets (X of 3):				***3***	***3***	***3***	***2***	***2***	***2***	
WETLAND TYPE											
	ANGELICA ATROPURPUREA	GREAT ANGELICA	2" DIA BY 4" PLUG	12"	1.00				1.00	1.00	**3.00**
	ASCLEPIAS INCARNATA	SWAMP MILKWEED	2" DIA BY 4" PLUG	12"	1.00	0.50	1.00			1.00	**3.50**
	ASTER SIMPLEX	PANICLED ASTER	2" DIA BY 4" PLUG	12"				3.00	2.00	1.00	**6.00**
	CALAMOGROSTIS CANADENSIS	BLUE JOINT GRASS	2" DIA BY 4" PLUG	12"					2.00	1.00	**3.00**
	CAREX HYSTERICINA	PORCUPINE SEDGE	2" DIA BY 4" PLUG	12"						1.00	**1.00**
	CAREX STRICTA	TUSSOCK SEDGE	2" DIA BY 4" PLUG	12"	1.00			3.00		1.00	**5.00**
	CAREX VULPINOIDEA	BROWN FOX SEDGE	2" DIA BY 4" PLUG	12"	1.00	1.00	1.00	3.00		1.00	**7.00**
	EUPATORIUM PERFOLIATUM	BONESET	2" DIA BY 4" PLUG	12"	1.00	0.50	1.00			1.00	**3.50**
	EUPATORIADELPHUS MACULATUS	SPOTTED JOE PYE WEED	2" DIA BY 4" PLUG	12"	1.00	0.50	1.00		2.00	1.00	**5.50**
	HELIANTHUS HELIANTHOIDES	FALSE SUNFLOWER	2" DIA BY 4" PLUG	12"						1.00	**1.00**
	IRIS VIRGINICA	BLUE FLAG IRIS	2" DIA BY 4" PLUG	12"	1.00	0.50	1.00	3.00			**5.50**
	JUNCUS DUDLEYI	DUDLEY'S RUSH	2" DIA BY 4" PLUG	12"						1.00	**1.00**
	LYCOPUS AMERICANUS	WATER HOREHOUND	2" DIA BY 4" PLUG	12"						1.00	**1.00**
	MENTHA ARVENSIS VAR. VILLOSA	WILD MINT	2" DIA BY 4" PLUG	12"	1.00						**1.00**
	RUDBECKIA LACINIATA	WILD GOLDEN GLOW	2" DIA BY 4" PLUG	12"					**2.00**		**2.00**
	SCHOENOPLECTUS ACUTUS	HARD-STEMMED BULRUSH	2" DIA BY 4" PLUG	12"		1.00					**1.00**
	SCHOENOPLECTUS TABERNAEMONTANI	SOFT-STEMMED BULRUSH	2" DIA BY 4" PLUG	12"						1.00	**1.00**
	SCIRPUS ATROVIRENS	DARK GREEN RUSH	2" DIA BY 4" PLUG	12"	1.00	0.50				1.00	**2.50**
	SYMPHYTOTRICHUM PUINICEUM	SHINING/BRISTLY ASTER	2" DIA BY 4" PLUG	12"						1.00	**1.00**
	SILPHIUM PERFOLIATUM	CUP PLANT	2" DIA BY 4" PLUG	12"					2.00		**2.00**
	VERBENA HASTATA	BLUE VERVAIN	2" DIA BY 4" PLUG	12"	1.00	0.50	1.00	3.00	2.00		**7.50**
					10.00	**5.00**	**6.00**	**15.00**	**13.00**	**15.00**	**64.00** **TOTAL**

ALL PERENNIAL PLANTS SHALL BE INTERMIXED AND STAGGERED

ALL PERENNIAL PLANTS SHALL BE PLANTED INTO SEEDING/BLANKET

D16B721-sht-landscap-schedule.dgn

DB STERLIN CONSULTANTS, INC.
123 N. WACKER DRIVE SUITE 2000
CHICAGO, ILLINOIS 60606
TEL: (312)857-1006 FAX: (312)857-1056

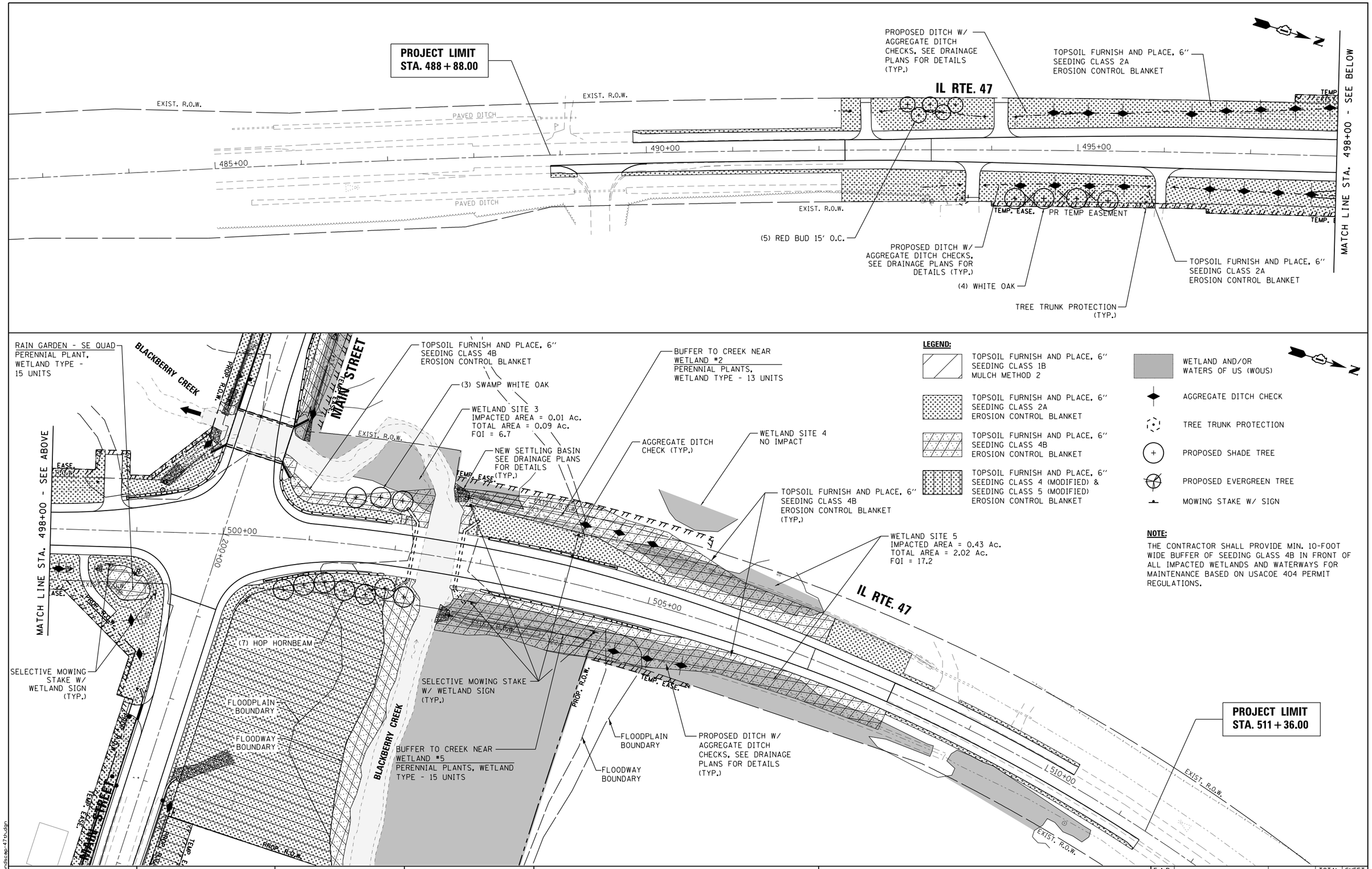
USER NAME = JKando	DESIGNED - BA	REVISED -
	DRAWN - BFH	REVISED -
PLOT SCALE = NTS	CHECKED - BA	REVISED -
PLOT DATE = 3/6/2019	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LANDSCAPING SCHEDULE
IL ROUTE 47 AT MAIN STREET

SCALE: 1" = 50' | SHEET 1 OF 3 SHEETS | STA. _____ | TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	107N-4	KANE	288	143
		CONTRACT NO. 60T21		
	ILLINOIS FED. AID PROJECT			



NOTE:

THE CONTRACTOR SHALL PROVIDE MIN. 10-FOOT WIDE BUFFER OF SEEDING GLASS 4B IN FRONT OF ALL IMPACTED WETLANDS AND WATERWAYS FOR MAINTENANCE BASED ON USACOE 404 PERMIT REGULATIONS.

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PLOT DATE = 3/6/2019	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LANDSCAPING PLAN – IL ROUTE 47
IL ROUTE 47 AT MAIN STREET

SCALE: 1" = 50' | SHEET 2 OF 3 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	107N-4	KANE	288	144
		CONTRACT NO. 60T21		
	ILLINOIS FED. AID PROJECT			

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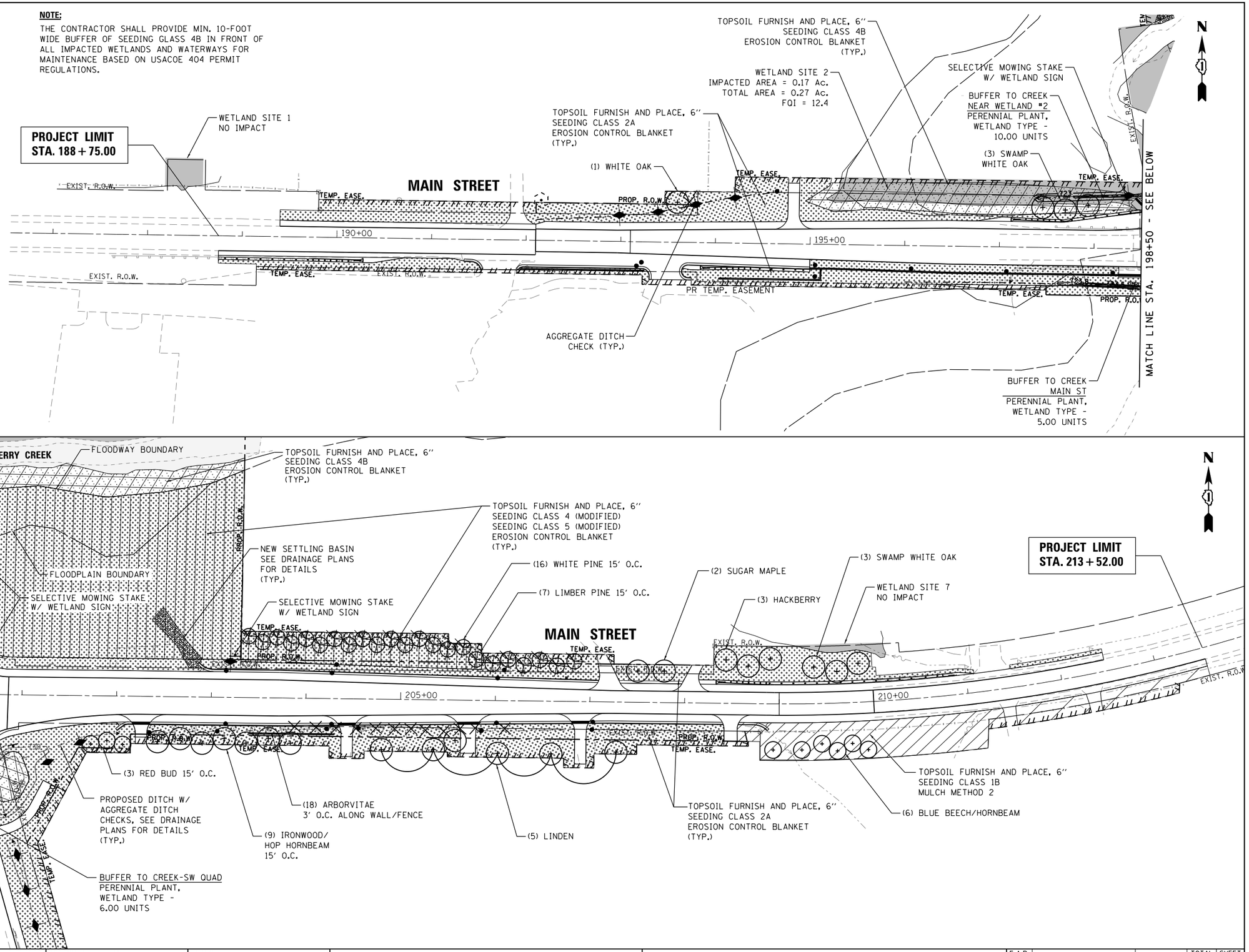
LEGEND:

- TOPSOIL FURNISH AND PLACE, 6" SEEDING CLASS 1B MULCH METHOD 2
- TOPSOIL FURNISH AND PLACE, 6" SEEDING CLASS 2A EROSION CONTROL BLANKET
- TOPSOIL FURNISH AND PLACE, 6" SEEDING CLASS 4B EROSION CONTROL BLANKET
- TOPSOIL FURNISH AND PLACE, 6" SEEDING CLASS 4 (MODIFIED) & SEEDING CLASS 5 (MODIFIED) EROSION CONTROL BLANKET
- WETLAND AND/OR WATERS OF US (WOUS)
- AGGREGATE DITCH CHECK
- TREE TRUNK PROTECTION
- PROPOSED SHADE TREE
- PROPOSED EVERGREEN TREE
- MOWING STAKE W/ SIGN

NOTE:

THE CONTRACTOR SHALL PROVIDE MIN. 10-FOOT WIDE BUFFER OF SEEDING GLASS 4B IN FRONT OF ALL IMPACTED WETLANDS AND WATERWAYS FOR MAINTENANCE BASED ON USACOE 404 PERMIT REGULATIONS.



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DS STERLIN CONSULTANTS, INC.
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PLOT SCALE = NTS	CHECKED - BA	REVISED -
PLOT DATE = 3/6/2019	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LANDSCAPING PLAN – MAIN STREET
IL ROUTE 47 AT MAIN STREET

SCALE: 1" = 50' | SHEET 3 OF 3 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	107N-4	KANE	288	145
		CONTRACT NO. 60T21		
	ILLINOIS FED. AID PROJECT			

TRAFFIC SIGNAL LEGEND

(NOT TO SCALE)

ITEM	EXISTING	PROPOSED
CONTROLLER CABINET		
COMMUNICATION CABINET	ECC	CC
MASTER CONTROLLER	EMC	MC
MASTER MASTER CONTROLLER	EMMC	MMC
UNINTERRUPTABLE POWER SUPPLY		
SERVICE INSTALLATION -(P) POLE MOUNTED	P	P
SERVICE INSTALLATION -(G) GROUND MOUNTED -(GM) GROUND MOUNTED METERED	G GM	G GM
TELEPHONE CONNECTION	ET	T
STEEL MAST ARM ASSEMBLY AND POLE		
ALUMINUM MAST ARM ASSEMBLY AND POLE		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE		
SIGNAL POST -(BM) BARREL MOUNTED - TEMPORARY		BM
WOOD POLE		
GUY WIRE		
SIGNAL HEAD		
SIGNAL HEAD WITH BACKPLATE		
SIGNAL HEAD OPTICALLY PROGRAMMED	P P	P P
FLASHER INSTALLATION -(FS) SOLAR POWERED	F FS F FS	F FS F FS
PEDESTRIAN SIGNAL HEAD		
PEDESTRIAN PUSH BUTTON -(APS) ACCESSIBLE PEDESTRIAN PUSH BUTTON	APS	APS
RADAR DETECTION SENSOR	R	R
VIDEO DETECTION CAMERA	V	V
RADAR/VIDEO DETECTION ZONE		
PAN, TILT, ZOOM (PTZ) CAMERA	PTZ	PTZ
EMERGENCY VEHICLE LIGHT DETECTOR		
CONFIMATION BEACON		
WIRELESS INTERCONNECT		
WIRELESS INTERCONNECT RADIO REPEATER	ERR	RR

ITEM	EXISTING	PROPOSED
HANDHOLE -SQUARE -ROUND		
HEAVY DUTY HANDHOLE -SQUARE -ROUND	H	H
DOUBLE HANDHOLE		
JUNCTION BOX		
RAILROAD CANTILEVER MAST ARM		
RAILROAD FLASHING SIGNAL		
RAILROAD CROSSING GATE		
RAILROAD CROSSBUCK		
RAILROAD CONTROLLER CABINET		
UNDERGROUND CONDUIT (UC), GALVANIZED STEEL		
TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE		
SYSTEM ITEM	S	SP
INTERSECTION ITEM	I	IP
REMOVE ITEM		R
RELOCATE ITEM		RL
ABANDON ITEM		A
CONTROLLER CABINET AND FOUNDATION TO BE REMOVED		RCF
MAST ARM POLE AND FOUNDATION TO BE REMOVED		RMF
SIGNAL POST AND FOUNDATION TO BE REMOVED		RPF
DETECTOR LOOP, TYPE I		
PREFORMED DETECTOR LOOP	P	P
SAMPLING (SYSTEM) DETECTOR	S	S
INTERSECTION AND SAMPLING (SYSTEM) DETECTOR	IS	IS
QUEUE AND SAMPLING (SYSTEM) DETECTOR	QS	QS
WIRELESS DETECTOR SENSOR	W	W
WIRELESS ACCESS POINT		

ITEM	EXISTING	PROPOSED
SIGNAL HEAD -(P) PROGRAMMABLE SIGNAL HEAD	P	P
SIGNAL HEAD WITH BACKPLATE -(P) PROGRAMMABLE SIGNAL HEAD -(RB) RETROREFLECTIVE BACKPLATE	P RB	P RB
PEDESTRIAN SIGNAL HEAD AT RAILROAD INTERSECTIONS		
PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER	C D	C D
ILLUMINATED SIGN "NO LEFT TURN"/"NO RIGHT TURN"		
NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE. ALL DETECTOR LOOP CABLE TO BE SHIELDED	5	5
GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)	1#6	1#6
ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1/C	1	1
COAXIAL CABLE	C	C
VENDOR CABLE	V	V
COPPER INTERCONNECT CABLE, NO. 18, 3 PAIR TWISTED, SHIELDED	6#18	6#18
FIBER OPTIC CABLE -NO. 62.5/125, MM12F -NO. 62.5/125, MM12F SM12F -NO. 62.5/125, MM12F SM24F	12F 24F 36F	12F 24F 36F
GROUND ROD -(C) CONTROLLER -(M) MAST ARM -(P) POST -(S) SERVICE	C M P S	C M P S

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		DRAWN - IP	REVISED -
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	PLOT DATE = 9/29/2016	DATE - 9/29/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET 1 OF 7 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	TS-05	CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

TS SHT NO. 1

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DBS STERLIN CONSULTANTS, INC.
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CHICAGO, ILLINOIS 60606
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USER NAME = JKando	DESIGNED - BA	REVISED -	
	DRAWN - BFH	REVISED -	
PLOT SCALE = NTS	CHECKED - BA	REVISED -	
PLOT DATE = 3/6/2019	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: | SHEET 1 OF 8 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	107N-4	KANE	288	146
		CONTRACT NO. 60T21		
	ILLINOIS FED. AID PROJECT			

LOOP DETECTOR NOTES

1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.

2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.

3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.

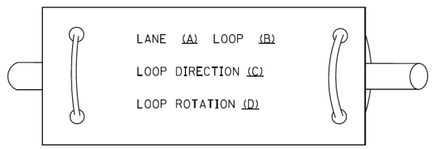
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.

5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.

6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.

7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

LOOP LEAD-IN CABLE TAG

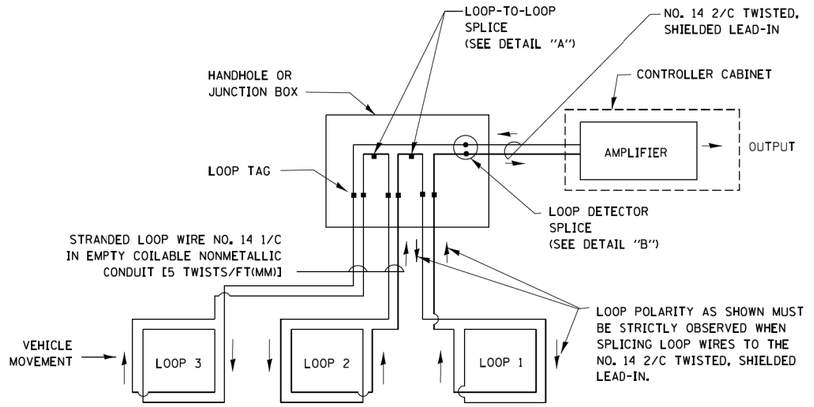


A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY

B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.

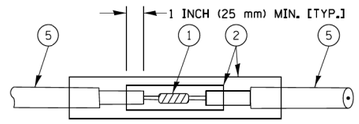
C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".

D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

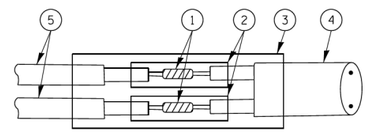


DETECTOR LOOP WIRING SCHEMATIC

- LOOPS SHALL BE SPLICED IN SERIES.
- SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm). IF IN CONCRETE, THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.

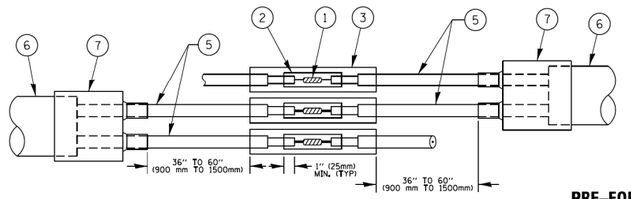


DETAIL "A"
LOOP-TO-LOOP SPLICE



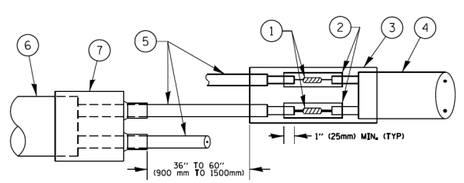
DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE

PRE-FORMED LOOP



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

LOOP DETECTOR SPLICE

(1) WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH. THE WESTERN UNION SPLICES SHALL BE STAGGERED.

(2) WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.

(3) WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGHT 6" (150 mm), UNDERWATER GRADE.

(4) NO. 14 2/C TWISTED, SHIELDED CABLE.

(5) LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.

(6) PRE-FORMED LOOP

(7) XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

FILE NAME = c:\pw_work\pwidot\footemj\d0108315\ts05.dgn	USER NAME = footemj	DESIGNED - DAD	REVISED - DAG 1-1-14
		DRAWN - BCK	REVISED -
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	PLOT DATE = 1/13/2014	DATE - 10-28-09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET NO. 2 OF 7 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	TS-05	CONTRACT NO.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

TS SHT NO. 2

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USER NAME = JKando	DESIGNED - BA	REVISED -
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PLOT SCALE = NTS	CHECKED - BA	REVISED -
PLOT DATE = 3/6/2019	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

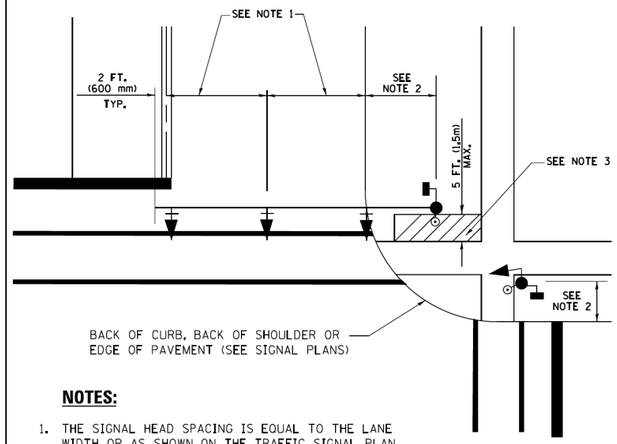
DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: | SHEET 2 OF 8 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	107N-4	KANE	288	147
		CONTRACT NO. 60T21		
	ILLINOIS	FED. AID PROJECT		

TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

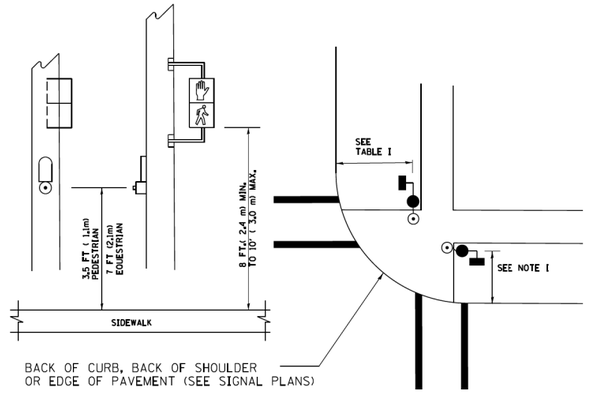
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



NOTES:

1. THE SIGNAL HEAD SPACING IS EQUAL TO THE LANE WIDTH OR AS SHOWN ON THE TRAFFIC SIGNAL PLAN.
2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
5. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

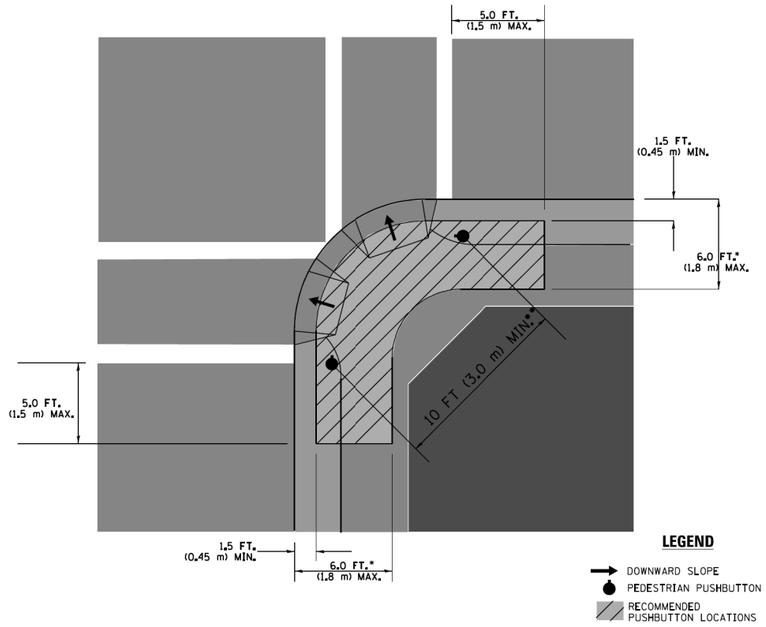
PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



NOTES:

1. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
2. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE PEDESTRIAN SIGNAL POST OR THE PEDESTRIAN PUSH BUTTON POST.
3. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
4. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

RECOMMENDED PUSHBUTTON LOCATIONS



* WHERE THERE ARE CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON BETWEEN 1.5 FT (0.45 m) AND 6 FT (1.8 m) FROM THE EDGE OF THE CURB, SHOULDER, OR PAVEMENT, IT SHOULD NOT BE FURTHER THAN 10 FT (3 m) FROM THE EDGE OF CURB, SHOULDER, OR PAVEMENT.

** WHERE THERE ARE CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10 FT (3 m) SEPERATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

NOTES:

1. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
2. THE BOTTOM OF THE SIGNAL HOUSING (INCLUDING BRACKETS) OF A VEHICULAR SIGNAL FACE THAT IS NOT LOCATED OVER A HIGHWAY SHALL BE AT LEAST 8 FT (2.4 m) BUT NOT MORE THAN 19 FT (5.8 m) ABOVE THE SIDEWALK OR, IF THERE IS NO SIDEWALK, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE ROADWAY.
3. THE BOTTOM OF THE SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001, 877002, 877006, 877011 AND 877012 WITH A MINIMUM OF 16 FT (5.0 m) AND A MAXIMUM OF 18 FT. (5.5 m) FROM THE HIGHEST POINT OF PAVEMENT.
4. THE BOTTOM OF THE TEMPORARY SPAN WIRE MOUNTED SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARD 880001 WITH A MINIMUM OF 17 FT (5.18 m) FROM THE HIGHEST POINT OF PAVEMENT.
5. THE TOP OF THE SIGNAL HOUSING OF A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL NOT BE MORE THAN 25.6 FT (7.8 m) ABOVE THE PAVEMENT.

TRAFFIC SIGNAL EQUIPMENT OFFSET

TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN PUSHBUTTON POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TEMPORARY WOOD POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
CONTROLLER CABINET	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.
SERVICE INSTALLATION, GROUND MOUNT	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.

NOTES:

1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
3. MINIMUM DISTANCE FROM THE EDGE OF PAVEMENT TOTHE ROADWAY SIDE OF THE FOUNDATION.
4. ANY CHANGES TO THE OFFSETS OF THE FOUNDATIONS, FROM THE MINIMUM DISTANCES LISTED IN THE "TRAFFIC SIGNAL EQUIPMENT OFFSET" CHART AND THE TRAFFIC SIGNAL INSTALLATION PLAN, COULD EFFECT THE PLACEMENT OF THE SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS AND THE PEDESTRIAN PUSHBUTTONS. THE SIGNAL HEAD PLACEMENT ON THE MAST ARMS SHALL REMAIN AS PER THE TRAFFIC SIGNAL INSTALLATION PLAN AND THE "TRAFFIC SIGNAL MAST ARM AND SIGNAL POST" DETAIL ABOVE. THE PROPOSED MAST ARM LENGTHS MAY NEED TO BE REVISED TO MEET THE ABOVE REQUIREMENTS. THE PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS MUST MEET THE REQUIREMENTS UNDER THE DETAILS ON THIS SHEET.

FILE NAME = cs\pw_work\pwidot\footemj\d0108315\ts05.dgn	USER NAME = footemj	DESIGNED - DAD	REVISED - DAG 1-1-14
		DRAWN - BCK	REVISED -
	PLOT SCALE = 50.0000 ' / in.	CHECKED - DAD	REVISED -
	PLOT DATE = 1/13/2014	DATE - 10-28-09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET NO. 3 OF 7 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	TS-05	CONTRACT NO.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

TS SHT NO. 3

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D60T21-sht-standard traffic signal details03.dgn

DBS STERLIN CONSULTANTS, INC.
123 N. WACKER DRIVE SUITE 2000
CHICAGO, ILLINOIS 60606
TEL. (312)857-1006 FAX. (312)857-1056

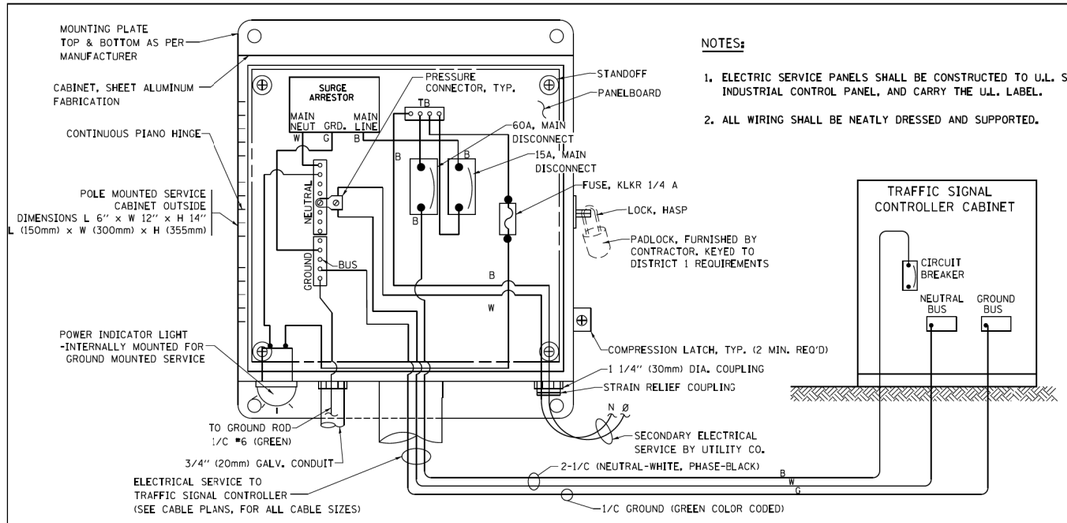
USER NAME = JKando	DESIGNED - BA	REVISED -	
	DRAWN - BFH	REVISED -	
PLOT SCALE = NTS	CHECKED - BA	REVISED -	
PLOT DATE = 3/6/2019	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: | SHEET 3 OF 8 SHEETS | STA. | TO STA.

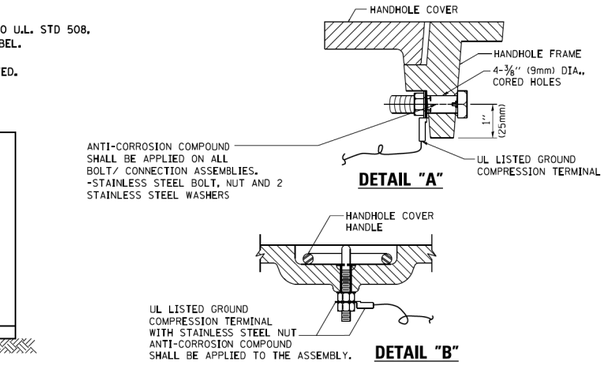
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	107N-4	KANE	288	148
		CONTRACT NO. 60T21		
	ILLINOIS	FED. AID PROJECT		



ELECTRICAL SERVICE – PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)
SERVICE INSTALLATION POLE MOUNT (SHOWN)
(NOT TO SCALE)

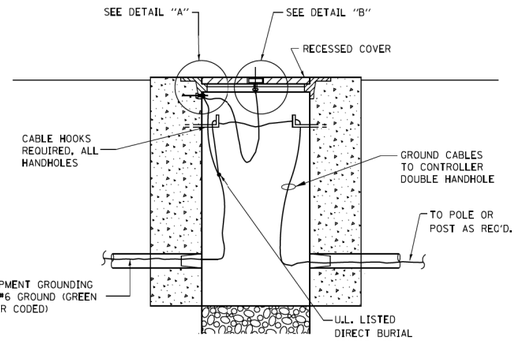
NOTES:

1. ELECTRIC SERVICE PANELS SHALL BE CONSTRUCTED TO U.L. STD 508, INDUSTRIAL CONTROL PANEL, AND CARRY THE U.L. LABEL.
2. ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.

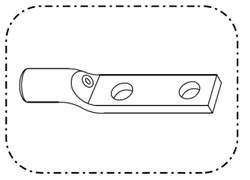


NOTES:
GROUNDING SYSTEM

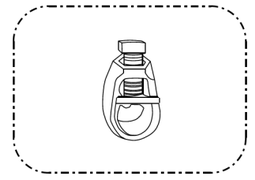
1. THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED TO METAL ENCLOSURE (HANDHOLE, POST, MAST ARM, CONTROLLER, ETC.). GROUND ROD SHALL BE 3/4" DIA. x 10'-0" (20mm x 3.0m) LONG, COPPER CLAD. ONE GROUND ROD SHALL BE INSTALLED AT ALL POST FOUNDATIONS, POLE FOUNDATIONS, CONTROLLER CABINET FOUNDATION AND ELECTRICAL SERVICE INSTALLATION AS INDICATED ON THE CABLE PLAN. IF THERE ARE ANY SPECIAL CONDITIONS SUCH AS SUB-SURFACE CONDITIONS OR INSTALLATION PROBLEMS, THE RESIDENT ENGINEER SHALL BE NOTIFIED OR CONTACT THE BUREAU OF TRAFFIC, ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE AT (847) 705-4139.
2. THE NEUTRAL CONDUCTOR AND THE GROUND CONDUCTOR SHALL BE CONNECTED IN THE SERVICE INSTALLATION. AT NO OTHER POINT IN THE TRAFFIC SIGNAL SYSTEM SHALL THE NEUTRAL AND GROUND CONDUCTORS BE CONNECTED.
3. ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
4. THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.



HANDHOLE COVER & FRAME – GROUNDING DETAIL
(NOT TO SCALE)



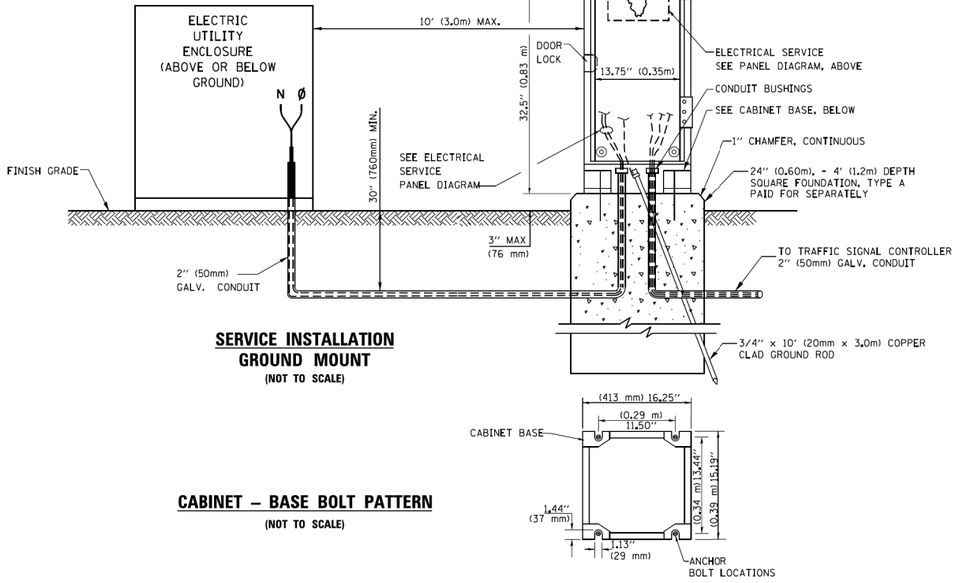
HEAVY-DUTY COMPRESSION TERMINAL (BURNDY TYPE YGHA OR APPROVED EQUAL)



¾" (20mm) HEAVY-DUTY GROUND ROD CLAMP (BURNDY TYPE GRC OR APPROVED EQUAL)

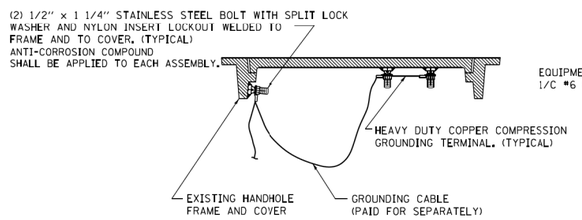
NOTES:

- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
- GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES. 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.

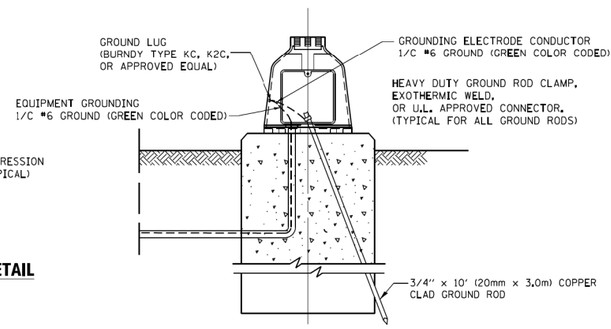


SERVICE INSTALLATION GROUND MOUNT
(NOT TO SCALE)

CABINET – BASE BOLT PATTERN
(NOT TO SCALE)



EXISTING HANDHOLE COVER & FRAME – GROUNDING DETAIL
(NOT TO SCALE)



MAST ARM POLE / POST–GROUNDING DETAIL
(NOT TO SCALE)

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	PLOT SCALE = 50.0000 ' / in.	DRAWN - BCK	REVISED -		SCALE: NONE | SHEET NO. 4 OF 7 SHEETS | STA. | TO STA.
	PLOT DATE = 1/13/2014	CHECKED - DAD	REVISED -		
		DATE - 10-28-09	REVISED -		

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	TS-05	CONTRACT NO.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

TS SHT NO. 4

d0801121-sht-standard_traffic_signal_details04.dgn

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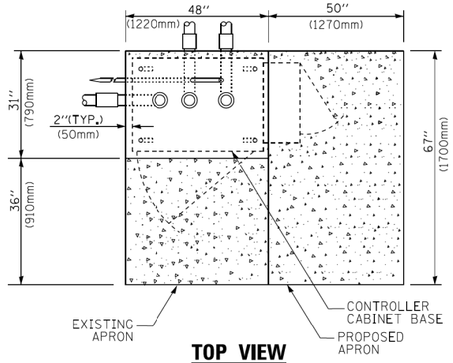
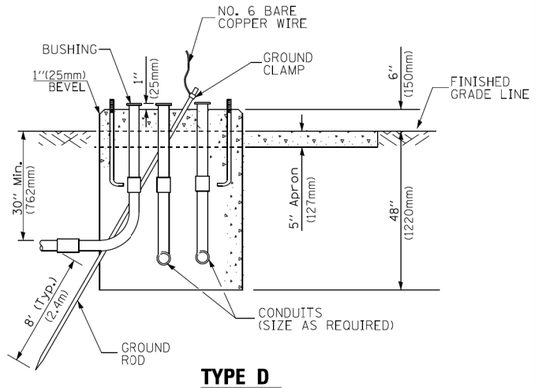
DBS STERLIN CONSULTANTS, INC. 123 N. WACKER DRIVE SUITE 2000 CHICAGO, ILLINOIS 60606 TEL. (312)857-1006 FAX. (312)857-1066	USER NAME = JKando	DESIGNED - BA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS
		DRAWN - BFH	REVISED -		SCALE: | SHEET 4 OF 8 SHEETS | STA. | TO STA.
	PLOT SCALE = NTS	CHECKED - BA	REVISED -		
	PLOT DATE = 3/6/2019	DATE -	REVISED -		

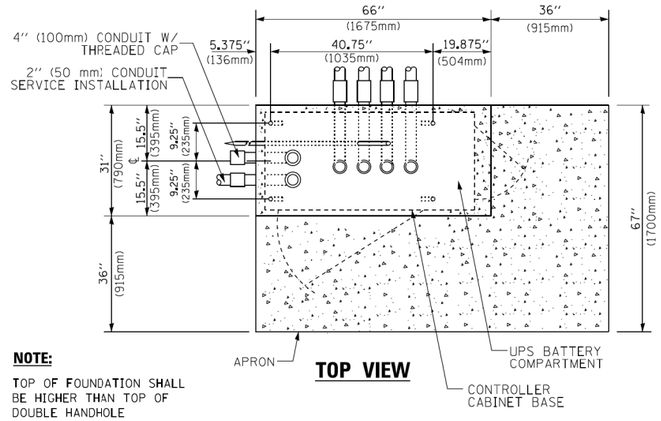
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	107N-4	KANE	288	149
		CONTRACT NO. 60T21		
	ILLINOIS	FED. AID PROJECT		



TOP VIEW



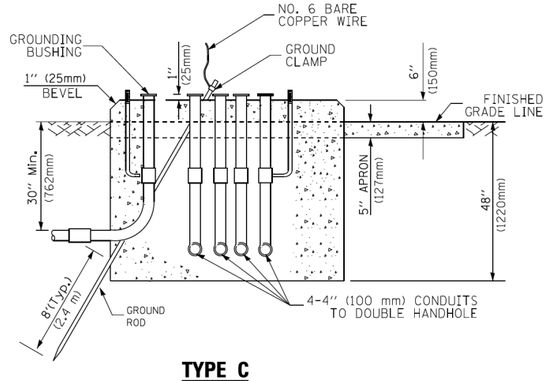
TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET



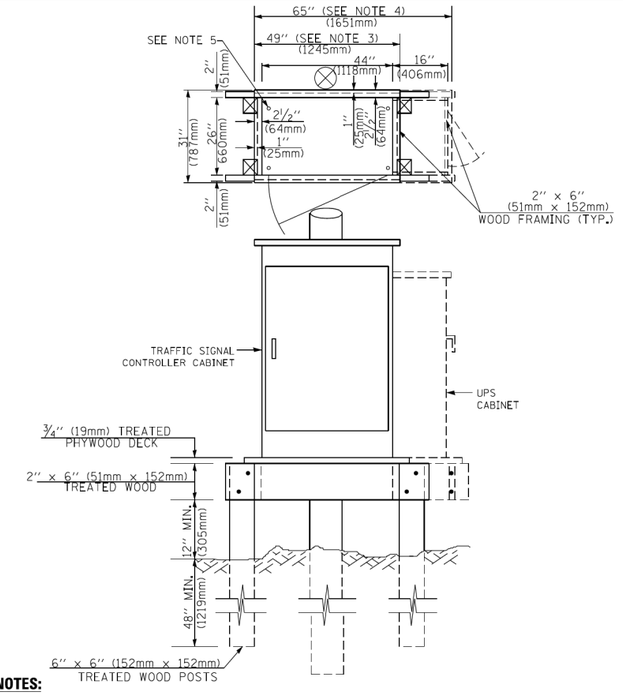
TOP VIEW

NOTE:

TOP OF FOUNDATION SHALL BE HIGHER THAN TOP OF DOUBLE HANDHOLE



TYPE C
FOR GROUND MOUNTED
SUPER P (TYPE IV) AND SUPER R (TYPE V)
CONTROLLER CABINETS



NOTES:

1. BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (660mm x 1118mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED
2. BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" x 25" (406mm x 635mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
3. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV.
4. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.
5. DRILLED HOLES THROUGH THE PLATFORM BASE TO MATCH THE CONTROLLER CABINET BOLT TEMPLATE. FASTEN THE CONTROLLER CABINET TO THE PLATFORM WITH CARRIAGE BOLTS, WASHERS AND NUTS.
6. FASTEN ALL SUPPORT WOOD FRAMING TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION..

TEMPORARY SIGNAL CONTROLLER
WOOD SUPPORT PLATFORM

CABLE SLACK LENGTH	FEET	METER
HANDHOLE	6.5	2.0
DOUBLE HANDHOLE	13.0	4.0
SIGNAL POST	2.0	0.6
MAST ARM	2.0	0.6
CONTROLLER CABINET	1.5	0.5
FIBER OPTIC AT CABINET	13.0	4.0
ELECTRIC SERVICE AT (CABINET OR SERVICE LOCATION)	1.5	0.5
GROUND CABLE (SIGNAL POST, MAST ARM, CABINET)	1.5	0.5
GROUND CABLE (BETWEEN FRAME AND COVER)	5.0	1.6

CABLE SLACK

VERTICAL CABLE LENGTH	FEET	METER
MAST ARM POLE (MAST ARM MOUNTED SIGNAL HEAD) (L = MAST ARM LENGTH - DISTANCE TO SIGNAL HEAD FROM END OF ARM)	20.0+L	6.0+L
BRACKET MOUNTED (MAST ARM POLE OR SIGNAL POLE)	13.0	4.0
PEDESTRIAN PUSH BUTTON	6.0	2.0
SERVICE INSTALLATION POLE MOUNT TO SERVICE DROP	13.5	4.1
SERVICE INSTALLATION POLE MOUNT TO GROUND	13.5	4.1
SERVICE INSTALLATION GROUND MOUNT	6.0	2.0
FOUNDATION (SIGNAL POST, MAST ARM POLE, CONTROLLER CABINET, SERVICE-GROUND MOUNT)	3.0	1.0

VERTICAL CABLE LENGTH

FOUNDATION	DEPTH
TYPE A - Signal Post	4'-0" (1.2m)
TYPE C - CONTROLLER W/ UPS	4'-0" (1.2m)
TYPE D - CONTROLLER	4'-0" (1.2m)
SERVICE INSTALLATION, GROUND MOUNT, TYPE A - SQUARE	4'-0" (1.2m)

DEPTH OF FOUNDATION

Mast Arm Length	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 56' (16.8 m) and less than 65' (19.8 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

NOTES:

1. These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average Unconfined Compressive Strength (Qu) > 1.0 tsf (100 kpa). This strength shall be verified by boring data prior to construction or with testing by the Engineer during foundation drilling. The Bureau of Bridges & structures should be contacted for a revised design if other conditions are encountered.
2. Combination mast arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
3. Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations
4. For mast arm assemblies with dual arms refer to state standard 878001..

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

FILE NAME =	USER NAME = footemj	DESIGNED - DAG	REVISED - DAG 1-1-14
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	PLOT SCALE = 50.0000 ' / in.	CHECKED - DAD	REVISED -
	PLOT DATE = 1/13/2014	DATE - 10-28-09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE	SHEET NO. 5 OF 7 SHEETS	STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	TS-05	CONTRACT NO.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

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TS SHT NO. 5

D1607Z1-sht-standard traffic signal details05.dgn

DBS
DB STERLIN CONSULTANTS, INC.
123 N. WACKER DRIVE SUITE 2000
CHICAGO, ILLINOIS 60606
TEL: (312)857-1006 FAX: (312)857-1056

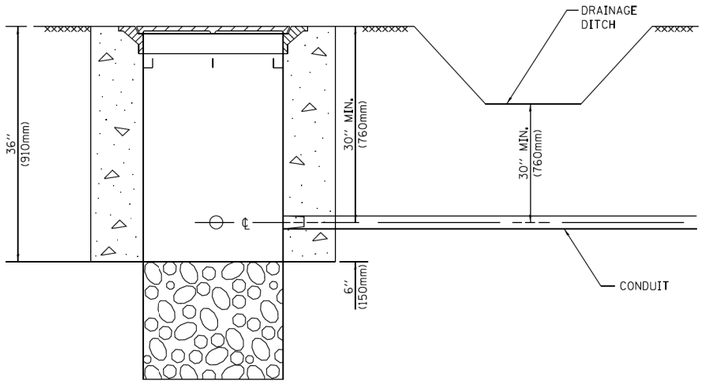
USER NAME = JKando	DESIGNED - BA	REVISED -
	DRAWN - BFH	REVISED -
PLOT SCALE = NTS	CHECKED - BA	REVISED -
PLOT DATE = 3/6/2019	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE:	SHEET 5 OF 8 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	107N-4	KANE	288	150
		CONTRACT NO. 60T21		
	ILLINOIS	FED. AID PROJECT		

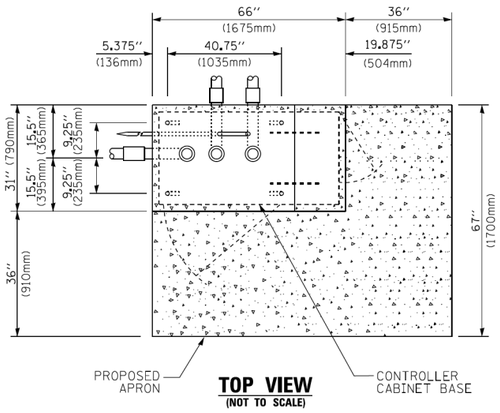


NOTES:

1. CONDUIT DEPTH SHALL BE A MINIMUM OF 30" (760mm) BELOW THE BOTTOM OF THE DRAINAGE DITCH OR ANY SLOPING GROUND
2. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL CONDUIT PLACED UNDER ROADWAY PAVEMENT, MULTI-USE PATHS, SIDEWALKS AND SOIL SURFACES.
3. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL HANDHOLES, HEAVY DUTY HANDHOLES AND DOUBLE HANDHOLES.

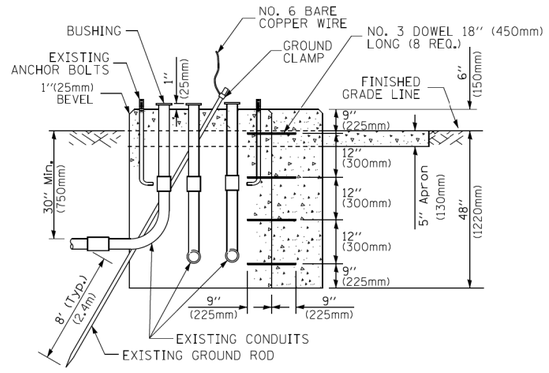
HANDHOLE WITH MINIMUM CONDUIT DEPTH

(NOT TO SCALE)



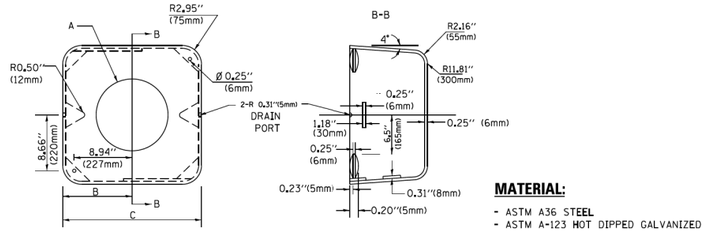
TOP VIEW

(NOT TO SCALE)



MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION

(NOT TO SCALE)



MATERIAL:

- ASTM A36 STEEL
- ASTM A-123 HOT DIPPED GALVANIZED

A	B	C	HEIGHT	WEIGHT
VARIES	9.5"(241mm)	19"(483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIES	10.75"(273mm)	21.5"(546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIES	13.0"(330mm)	26"(660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIES	18.5"(470mm)	37"(940mm)	7" (178mm) - 12" (300mm)	126 lbs (57 kg)

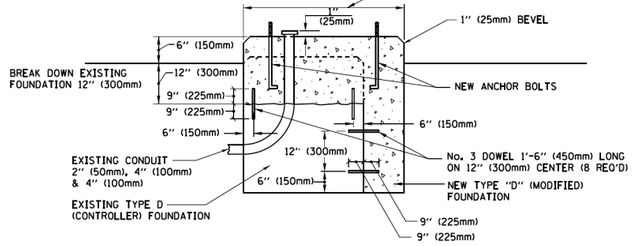
SHROUD

NOTES:

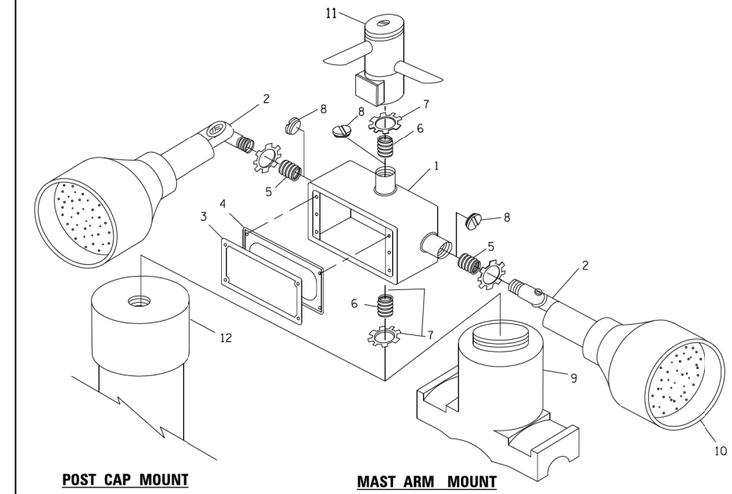
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFIED THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

NOTE:

SUPPORT EXISTING CABINET AND CONTROL EQUIPMENT ABOVE FOUNDATION TO KEEP TRAFFIC SIGNAL FUNCTIONING WHILE FOUNDATION MODIFICATION WORK IS PROCEEDING.



MODIFY EXISTING TYPE "D" FOUNDATION



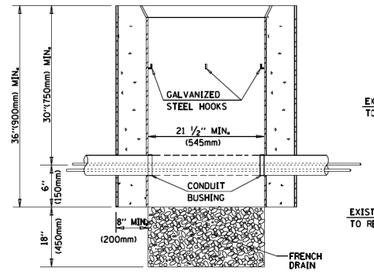
POST CAP MOUNT **MAST ARM MOUNT**

EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL

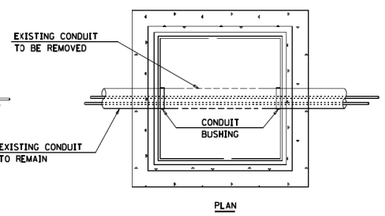
ITEM NO.	IDENTIFICATION
1	OUTLET BOX- GALV. 21 CU.IN. (0.000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	¾"(19 mm) CLOSE NIPPLE
7	¾"(19 mm) LOCKNUT
8	¾"(19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT
12	POST CAP [18 FT. (5.4 m) POST MIN.]

NOTES:

1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
2. ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT
   ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT
   ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
3. WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A 3/4 "(19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.



ELEVATION



PLAN

NOTES:

1. HANDHOLE CONSTRUCTED PER STATE STANDARD 81400!.
2. REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCLUDED WITH THE COST OF THE HANDHOLE.

HANDHOLE TO INTERCEPT EXISTING CONDUIT

FILE NAME = c:\pw_work\pwidot\footemj\d0108315\ts05.dgn	USER NAME = footemj	DESIGNED - DAD	REVISED - DAG 1-1-14
		DRAWN - BCK	REVISED -
	PLOT SCALE = 50.0000 ' / in.	CHECKED - DAD	REVISED -
	PLOT DATE = 1/13/2014	DATE - 10-28-09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET NO. 6 OF 7 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	TS-05	CONTRACT NO.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

ts05.dgn 1/13/2014 1:20:19 PM User=footemj

TS SHT NO. 6

D1607?1-sht-standard traffic signal details06.dgn

DBS STERLIN CONSULTANTS, INC.
123 N. WACKER DRIVE SUITE 2000
CHICAGO, ILLINOIS 60606
TEL: (312)857-1006 FAX: (312)857-1056

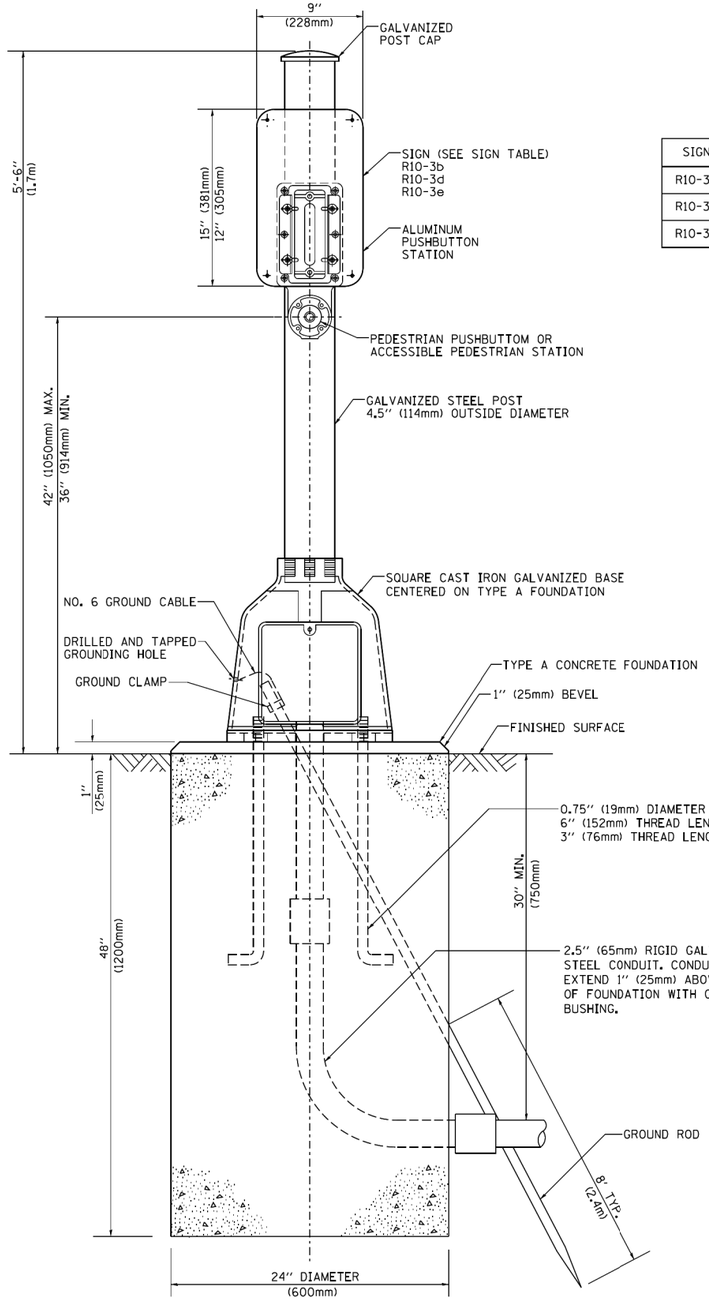
USER NAME = JKando	DESIGNED - BA	REVISED -
	DRAWN - BFH	REVISED -
PLOT SCALE = NTS	CHECKED - BA	REVISED -
PLOT DATE = 3/6/2019	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

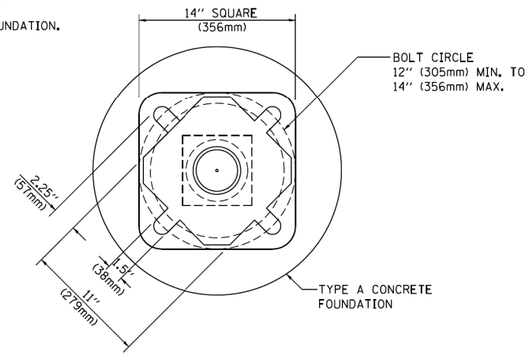
SCALE: | SHEET 6 OF 8 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	107N-4	KANE	288	151
		CONTRACT NO. 60T21		
	ILLINOIS	FED. AID PROJECT		



SIGN TABLE

SIGN	DIMENSIONS
R10-3b	9'' (228mm) X 12'' (305mm)
R10-3d	9'' (228mm) X 12'' (305mm)
R10-3e	9'' (228mm) X 15'' (381mm)



BOLT PATTERN

PEDESTRIAN PUSH BUTTON POST, TYPE A

FILE NAME = c:\pw_work\pwidot\footemj\d0108315\ts05.dgn	USER NAME = footemj	DESIGNED - DAG	REVISED - DAG 1-1-14
		DRAWN - GND	REVISED -
	PLOT SCALE = 50.0000 ' / in.	CHECKED - DAD	REVISED -
	PLOT DATE = 1/13/2014	DATE - 10/1/2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET NO. 7 OF 7 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	TS-05	CONTRACT NO.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

TS SHT NO. 7

D1607121-sht-standard traffic signal details07.dgn

ts05.dgn 1/13/2014 12:39:22 PM User=footemj

DB STERLIN CONSULTANTS, INC.
123 N. WACKER DRIVE SUITE 2000
CHICAGO, ILLINOIS 60606
TEL. (312)857-1006 FAX. (312)857-1056

USER NAME = JKando	DESIGNED - BA	REVISED -	
	DRAWN - BFH	REVISED -	
PLOT SCALE = NTS	CHECKED - BA	REVISED -	
PLOT DATE = 3/6/2019	DATE -	REVISED -	

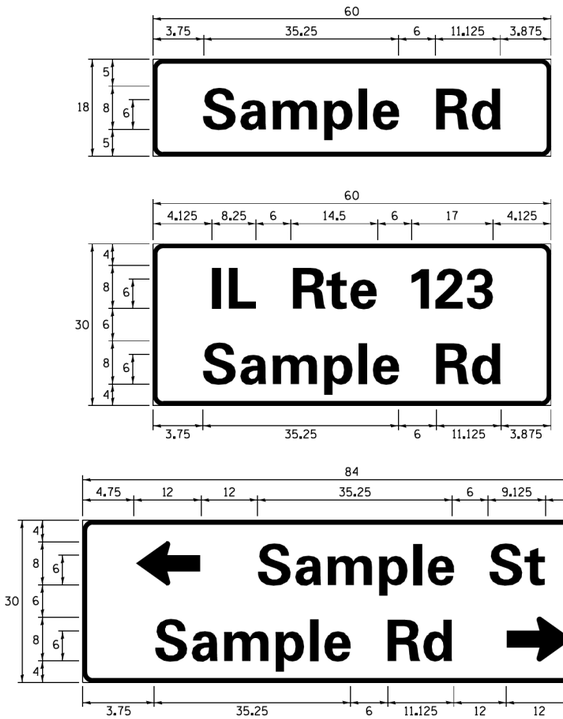
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: | SHEET 7 OF 8 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	107N-4	KANE	288	152
		CONTRACT NO. 60T21		
	ILLINOIS	FED. AID PROJECT		

SIGN PANEL – TYPE 1 OR TYPE 2



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D OR C	-	1 OR 2	ZZ	-

ALL DIMENSIONS ARE IN INCHES EXCEPT NOTED OTHERWISE

COMMON STREET NAME ABBREVIATIONS AND WIDTHS

NAME	ABBREVATION	WIDTH (INCH)	
		SERIES "C"	SERIES "D"
AVENUE	Ave	15.000	18.250
BOULEVARD	Blvd	17.125	20.000
CIRCLE	Cir	11.125	13.000
COURT	Ct	8.250	9.625
DRIVE	Dr	8.625	10.125
HIGHWAY	Hwy	18.375	22.000
ILLINOIS	IL	7.000	8.250
LANE	Ln	9.125	10.750
PARKWAY	Pkwy	23.375	27.375
PLACE	Pl	7.125	7.750
ROAD	Rd	9.625	11.125
ROUTE	Rte	12.625	14.500
STREET	St	8.000	9.125
TERRACE	Ter	12.625	14.625
TRAIL	Tr	7.750	9.125
UNITED STATES	US	10.375	12.250

GENERAL NOTES

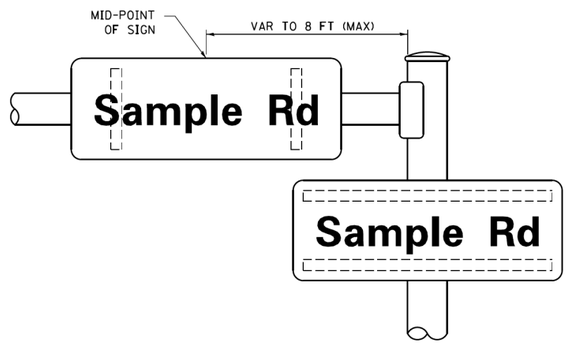
1. WHERE MAST ARM MOUNTED STREET NAME SIGNS ARE SPECIFIED, THE MAST ARM ASSEMBLY AND POLES SHALL BE DESIGNED TO SUPPORT THE LOADINGS CALLED FOR ON STANDARDS 877001, 877002, 877006, 877011 AND 877012, AS APPLICABLE, PLUS TWO (2) SIGN PANELS 2'-6" x 8'-0" MOUNTED AS SHOWN. THE DESIGN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS FOR 80 M.P.H. WIND VELOCITY.
2. ALL SIGNS SHALL CONSIST OF A WHITE LEGEND AND BORDER (TYPE ZZ SHEETING) ON A GREEN BACKGROUND (TYPE ZZ SHEETING)
3. THE SIGN LENGTH SHALL BE IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHALL NOT EXCEED 8'-0". ALL BORDERS SHALL BE ¾" WIDE. CORNER RADIUS SHALL BE 1-7/8". THE SPACING BETWEEN THE WORDS SHOULD BE 6", IF POSSIBLE, BUT MAY BE REDUCED TO 5" WHEN SPACING IS CRITICAL. A MINIMUM OF 2-1/2" SHALL BE INCLUDED BETWEEN THE WORD AND THE RIGHT AND LEFT EDGES OF THE SIGN.
4. A PREFERRED METHOD FOR THE SIGN DESIGN IS TO USE SERIES "D" LETTER ON A ONE-LINE SIGN 18" IN HEIGHT AND A MAXIMUM OF 8'-0" IN WIDTH. IF SERIES "D" DOES NOT FIT ON A 8"-0" SIGN, THEN SERIES "C" SHOULD BE TRIED. IF SERIES "C" DOES NOT FIT ON A 8'-0" SIGN, A 30" HIGH TWO-LINE SIGN CAN BE USED. THE CROSSROAD DESIGNATION AS TO STREET, AVENUE, ETC. SHOULD BE SPELLED OUT ON THE SECOND LINE. IF THE ABBREVIATION CANNOT FIT ON THE FIRST LINE.
5. LED ILLUMINATED STREET NAME SIGNS CAN BE USED IN PLACE OF REGULAR SIGN PANELS BUT ANY SPECIAL WORDING AND SYMBOLOGY MUST BE APPROVED BY THE DEPARTMENT. GENERAL DESIGN REQUIREMENT AS LISTED ABOVE (COLOR, FONT, SIZE, ETC.) MUST BE FOLLOWED.
6. SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS.

LOCAL SUPPLIERS:	PARTS LISTING:	
- J.O. HERBERT COMPANY, INC MIDLOTHIAN, VA	SIGN CHANNEL SIGN SCREWS	PART #HPN053 (MED. CHANNEL) 1/4" x 14 x 1" H.W.H. #3 SELF TAPPING WITH NEOPRENE WASHER
- WESTERN REMAC, INC. WOODRIDGE, IL	BRACKETS	PART #HPN034 (UNIVERSAL) CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING

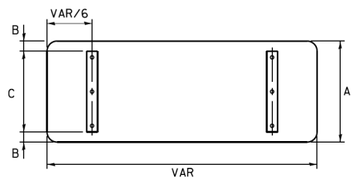
OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND COMPATIBILITY WITH THE CHANNEL/BRACKET OF THE ABOVE PRODUCT.

MOUNTING LOCATION

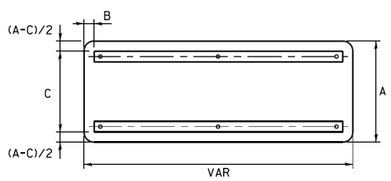
ARM OR POLE MOUNTED



SUPPORTING CHANNELS



A	B	C
18"	2"	14"
30"	2"	24"



A	B	C
18"	2"	12"
30"	2"	22"

STANDARD ALPHABETS SPACING CHART

(8") UPPER CASE AND (6") LOWER CASE

FHWA SERIES "C"				FHWA SERIES "D"			
CHARACTER	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)	CHARACTER	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)
A	0.240	5.122	0.240	A	0.240	6.804	0.240
B	0.880	4.482	0.480	B	0.960	5.446	0.400
C	0.720	4.482	0.720	C	0.800	5.446	0.800
D	0.880	4.482	0.720	D	0.960	5.446	0.800
E	0.880	4.082	0.480	E	0.960	4.962	0.400
F	0.880	4.082	0.240	F	0.960	4.962	0.240
G	0.720	4.482	0.720	G	0.800	5.446	0.800
H	0.880	4.482	0.880	H	0.960	5.446	0.960
I	0.880	1.120	0.880	I	0.960	1.280	0.960
J	0.240	4.082	0.880	J	0.240	5.122	0.960
K	0.880	4.482	0.480	K	0.960	5.604	0.400
L	0.880	4.082	0.240	L	0.960	4.962	0.240
M	0.880	5.284	0.880	M	0.960	6.244	0.960
N	0.880	4.482	0.880	N	0.960	5.446	0.960
O	0.720	4.722	0.720	O	0.800	5.684	0.800
P	0.880	4.482	0.720	P	0.960	5.446	0.240
Q	0.720	4.722	0.720	Q	0.800	5.684	0.800
R	0.880	4.482	0.480	R	0.960	5.446	0.400
S	0.480	4.482	0.480	S	0.400	5.446	0.400
T	0.240	4.082	0.240	T	0.240	4.962	0.240
U	0.880	4.482	0.880	U	0.960	5.446	0.960
V	0.240	4.962	0.240	V	0.240	6.084	0.240
W	0.240	6.084	0.240	W	0.240	7.124	0.240
X	0.240	4.722	0.240	X	0.400	5.446	0.400
Y	0.240	5.122	0.240	Y	0.240	6.884	0.240
Z	0.480	4.482	0.480	Z	0.400	5.446	0.400
a	0.320	3.842	0.640	a	0.400	4.562	0.720
b	0.720	4.082	0.480	b	0.800	4.802	0.480
c	0.480	4.002	0.240	c	0.480	4.722	0.240
d	0.480	4.082	0.720	d	0.480	4.802	0.800
e	0.480	4.082	0.320	e	0.480	4.722	0.320
f	0.320	2.480	0.160	f	0.320	2.882	0.160
g	0.480	4.082	0.720	g	0.480	4.802	0.800
h	0.720	4.082	0.640	h	0.800	4.722	0.720
i	0.720	1.120	0.720	i	0.800	1.280	0.800
j	0.000	2.320	0.720	j	0.000	2.642	0.800
k	0.720	4.322	0.160	k	0.800	5.122	0.160
l	0.720	1.120	0.720	l	0.800	1.280	0.800
m	0.720	6.724	0.640	m	0.800	7.926	0.720
n	0.720	4.082	0.640	n	0.800	4.722	0.720
o	0.480	4.082	0.480	o	0.480	4.882	0.480
p	0.720	4.082	0.480	p	0.800	4.802	0.480
q	0.480	4.082	0.720	q	0.480	4.802	0.800
r	0.720	2.642	0.160	r	0.800	3.042	0.160
s	0.320	3.362	0.240	s	0.320	3.762	0.240
t	0.080	2.882	0.080	t	0.080	3.202	0.080
u	0.640	4.082	0.720	u	0.720	4.722	0.800
v	0.160	4.722	0.160	v	0.160	5.684	0.160
w	0.160	7.524	0.160	w	0.160	9.046	0.160
x	0.000	5.202	0.000	x	0.000	6.244	0.000
y	0.160	4.962	0.160	y	0.160	6.004	0.160
z	0.240	3.362	0.240	z	0.240	4.002	0.240
1	0.720	1.680	0.880	1	0.800	2.000	0.960
2	0.480	4.482	0.480	2	0.800	5.446	0.800
3	0.480	4.482	0.480	3	1.440	5.446	0.800
4	0.240	4.962	0.720	4	0.160	6.004	0.960
5	0.480	4.482	0.480	5	0.800	5.446	0.800
6	0.720	4.482	0.720	6	0.800	5.446	0.800
7	0.240	4.482	0.720	7	0.560	5.446	0.560
8	0.480	4.482	0.480	8	0.800	5.446	0.800
9	0.480	4.482	0.480	9	0.800	5.446	0.800
0	0.720	4.722	0.720	0	0.800	5.684	0.800
-	0.240	2.802	0.240	-	0.240	2.802	0.240

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	PLOT SCALE = 50.0000 ' / in.	DRAWN -	REVISED -							
	PLOT DATE = 7/31/2015	CHECKED - IP	REVISED -				TS-02	CONTRACT NO.		
		DATE - 10/01/2014	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT		

ts02.dgn 7/31/2015 11:37:05 AM User=drivakosgn

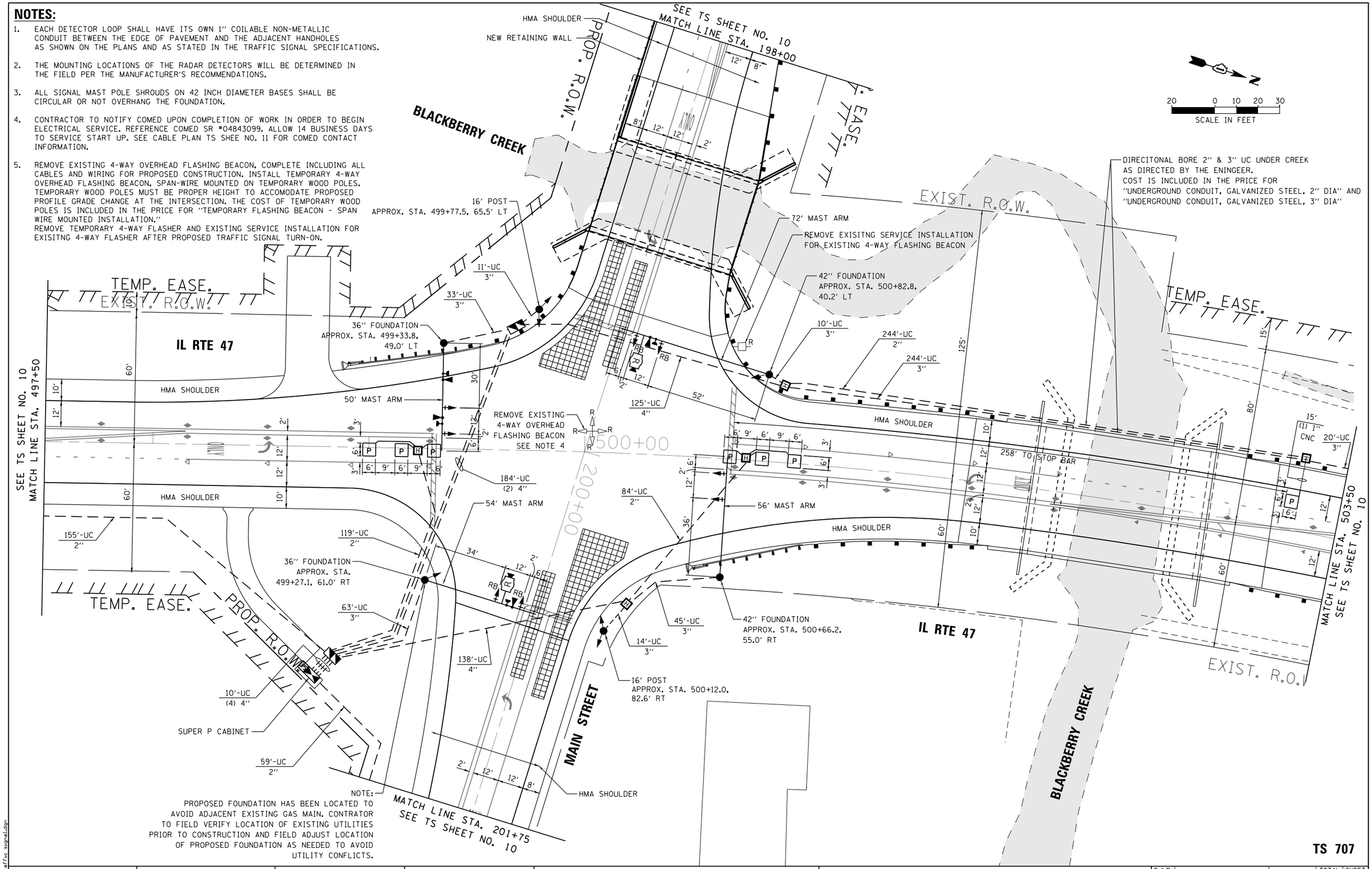
TS SHT NO. 8

D160721-sht-standard traffic signal details08.dgn

DB STERLIN CONSULTANTS, INC. 123 N. WACKER DRIVE SUITE 2000 CHICAGO, ILLINOIS 60606 TEL. (312)857-1006 FAX. (312)857-1056	USER NAME = JKando	DESIGNED - BA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - BFH	REVISED -			326	107N-4	KANE	288	153
	PLOT SCALE = NTS	CHECKED - BA	REVISED -					CONTRACT NO. 60T21		
	PLOT DATE = 3/6/2019	DATE -	REVISED -		SCALE: SHEET 8 OF 8 SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT		

NOTES:

1. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLES AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.
2. THE MOUNTING LOCATIONS OF THE RADAR DETECTORS WILL BE DETERMINED IN THE FIELD PER THE MANUFACTURER'S RECOMMENDATIONS.
3. ALL SIGNAL MAST POLE SHROUDS ON 42 INCH DIAMETER BASES SHALL BE CIRCULAR OR NOT OVERHANG THE FOUNDATION.
4. CONTRACTOR TO NOTIFY COMED UPON COMPLETION OF WORK IN ORDER TO BEGIN ELECTRICAL SERVICE. REFERENCE COMED SR #04843099. ALLOW 14 BUSINESS DAYS TO SERVICE START UP. SEE CABLE PLAN TS SHEE NO. 11 FOR COMED CONTACT INFORMATION.
5. REMOVE EXISTING 4-WAY OVERHEAD FLASHING BEACON, COMPLETE INCLUDING ALL CABLES AND WIRING FOR PROPOSED CONSTRUCTION. INSTALL TEMPORARY 4-WAY OVERHEAD FLASHING BEACON, SPAN-WIRE MOUNTED ON TEMPORARY WOOD POLES. TEMPORARY WOOD POLES MUST BE PROPER HEIGHT TO ACCOMODATE PROPOSED PROFILE GRADE CHANGE AT THE INTERSECTION. THE COST OF TEMPORARY WOOD POLES IS INCLUDED IN THE PRICE FOR "TEMPORARY FLASHING BEACON - SPAN WIRE MOUNTED INSTALLATION."
REMOVE TEMPORARY 4-WAY FLASHER AND EXISTING SERVICE INSTALLATION FOR EXISITNG 4-WAY FLASHER AFTER PROPOSED TRAFFIC SIGNAL TURN-ON.



NOTE:
PROPOSED FOUNDATION HAS BEEN LOCATED TO AVOID ADJACENT EXISTING GAS MAIN. CONTRATOR TO FIELD VERIFY LOCATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION AND FIELD ADJUST LOCATION OF PROPOSED FOUNDATION AS NEEDED TO AVOID UTILITY CONFLICTS.

TS SHT NO. 9

TS 707

D:\60T21-sht-traffic signal.dgn

DB STERLIN CONSULTANTS, INC.
123 N. WACKER DRIVE SUITE 2000
CHICAGO, ILLINOIS 60606
TEL. (312)857-1006 FAX. (312)857-1056

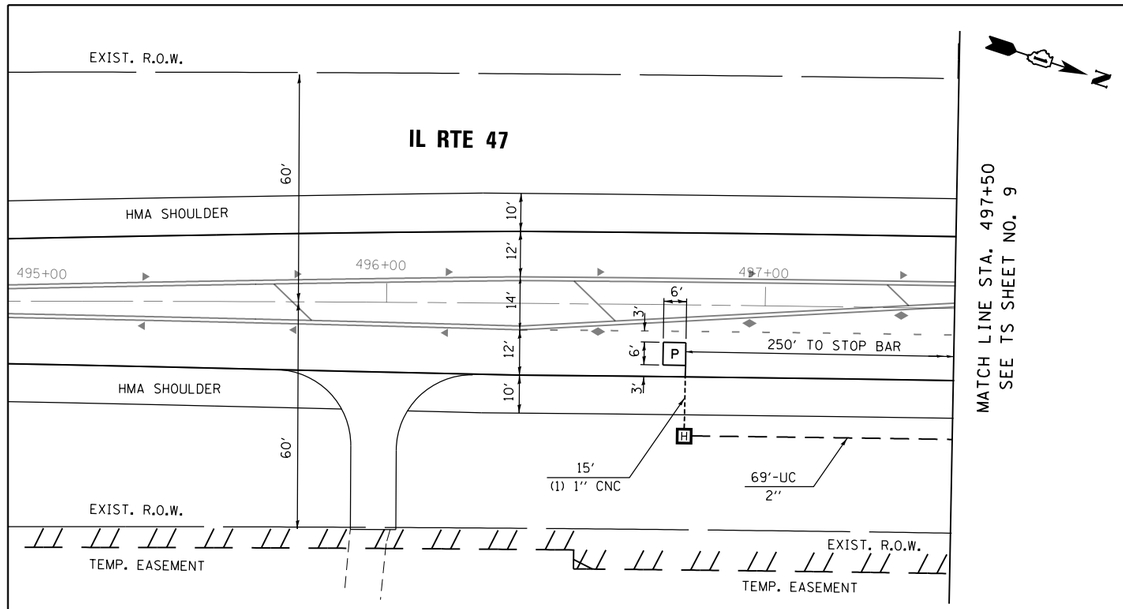
USER NAME = JKando	DESIGNED - BA	REVISED -
	DRAWN - BFH	REVISED -
PLOT SCALE = NTS	CHECKED - BA	REVISED -
PLOT DATE = 3/6/2019	DATE -	REVISED -

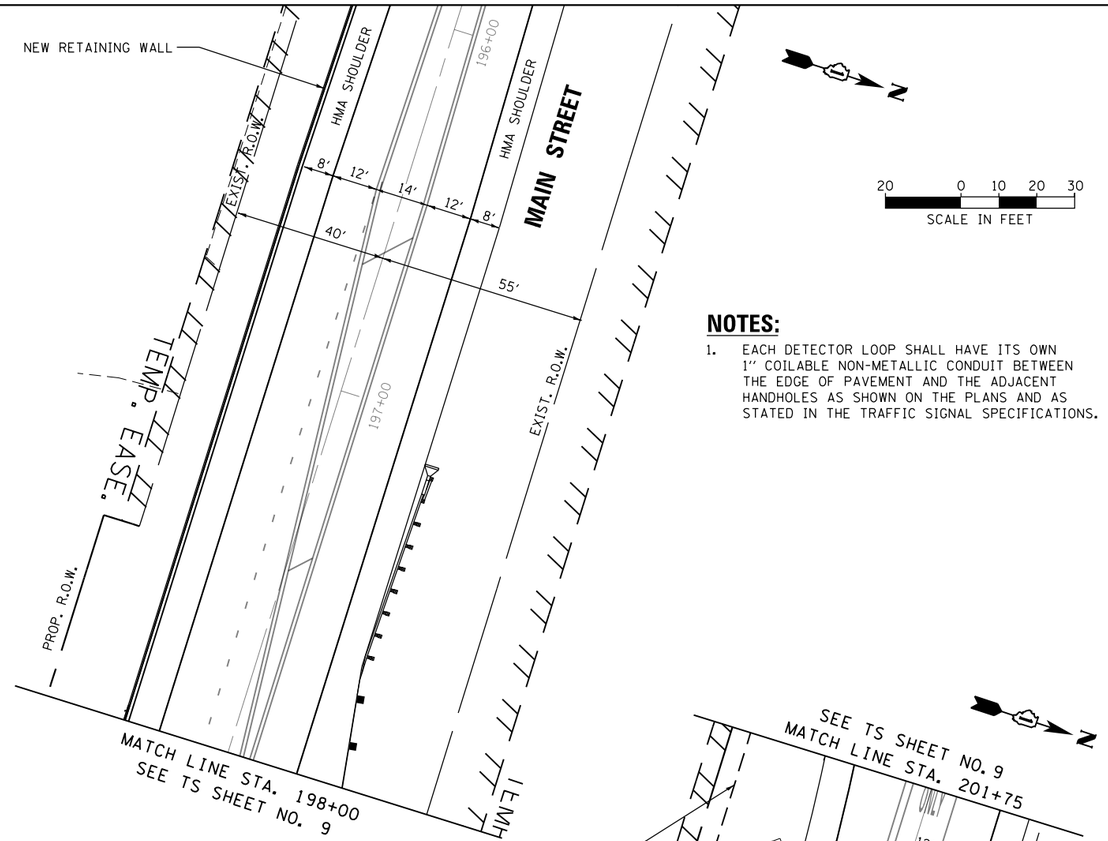
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL INSTALLATION PLAN (SHEET 1 OF 2)
IL ROUTE 47 AT MAIN STREET

SCALE: 1" = 20' | SHEET 1 OF 4 SHEETS | STA. | TO STA.

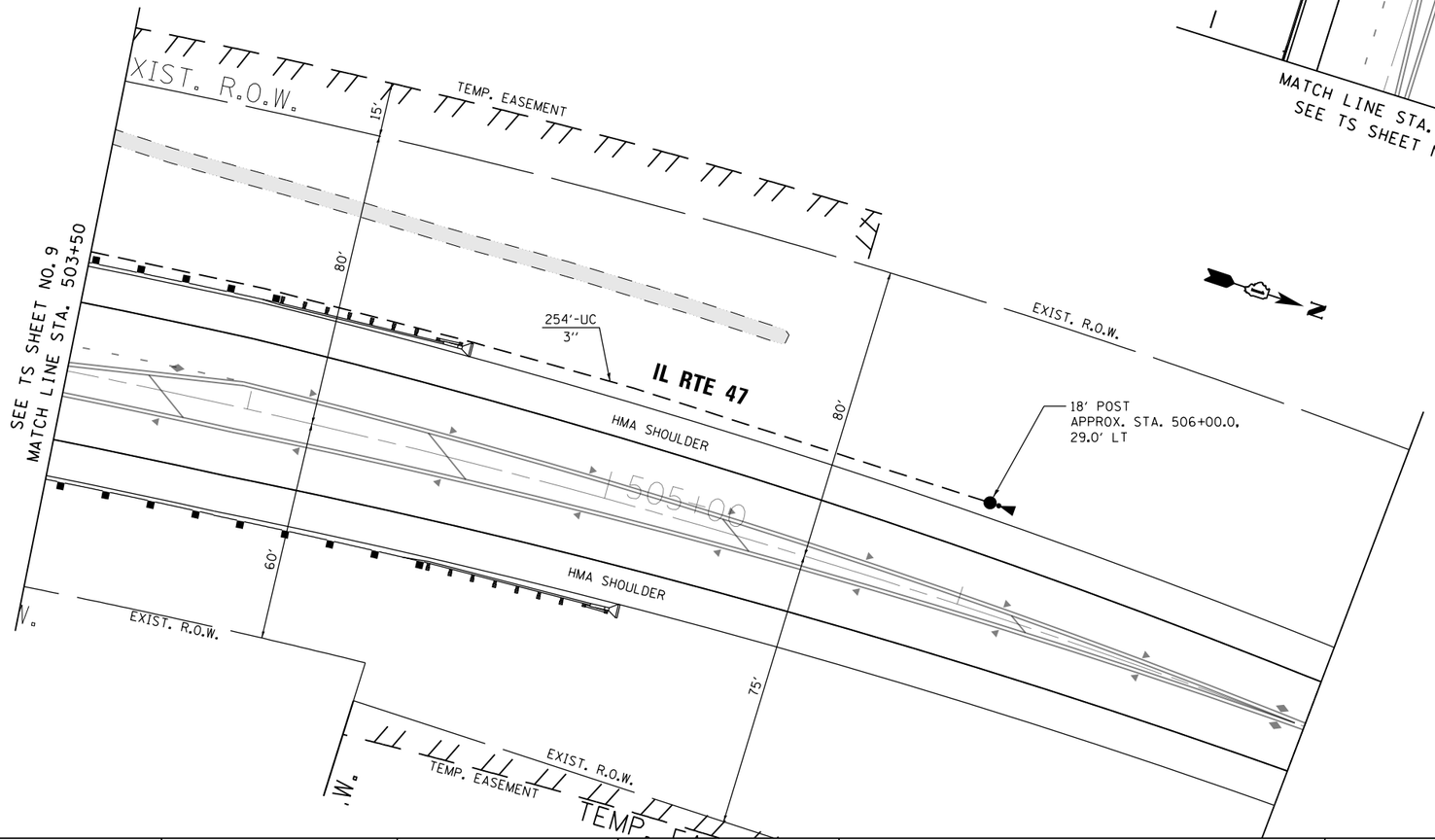
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	107N-4	KANE	288	154
		CONTRACT NO. 60T21		
	ILLINOIS FED. AID PROJECT			

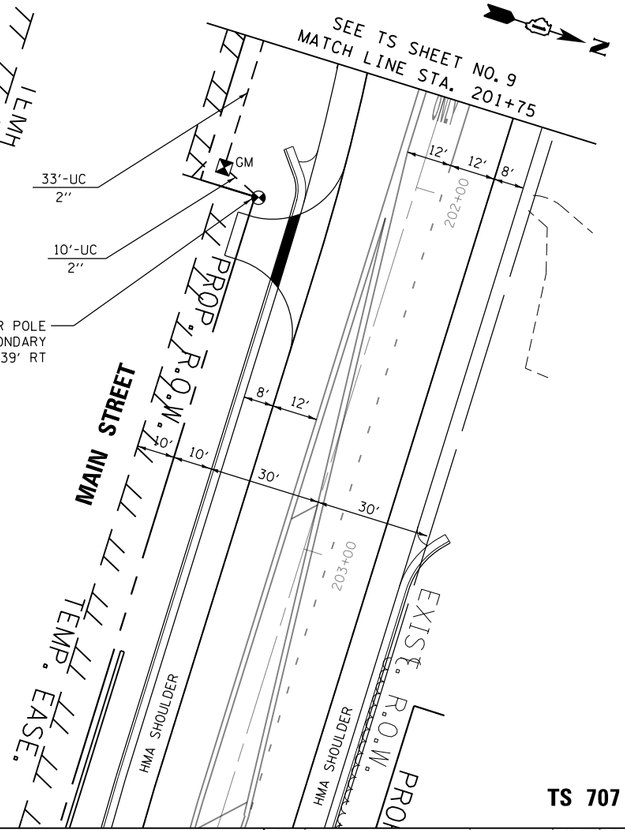




NOTES:

1. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLES AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.





TS 707

TS SHT NO. 10

D160721-sht-traffic signal 2.dgn

DB STERLIN CONSULTANTS, INC.
123 N. WACKER DRIVE SUITE 2000
CHICAGO, ILLINOIS 60606
TEL. (312)887-1006 FAX. (312)887-1066

USER NAME = JKando	DESIGNED - BA	REVISED -
	DRAWN - BFH	REVISED -
PLOT SCALE = NTS	CHECKED - BA	REVISED -
PLOT DATE = 3/6/2019	DATE -	REVISED -

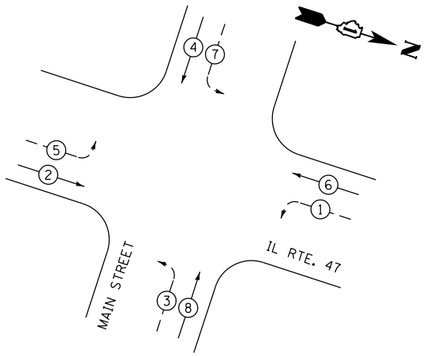
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL INSTALLATION PLAN (SHEET 2 OF 2)
IL ROUTE 47 AT MAIN STREET

SCALE: 1" = 20' | SHEET 2 OF 4 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	107N-4	KANE	288	155
		CONTRACT NO. 60T21		
	ILLINOIS FED. AID PROJECT			

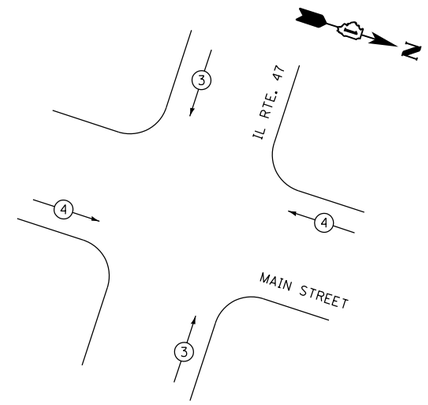
PROPOSED CONTROLLER SEQUENCE



LEGEND:

- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OL OVERLAP

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE

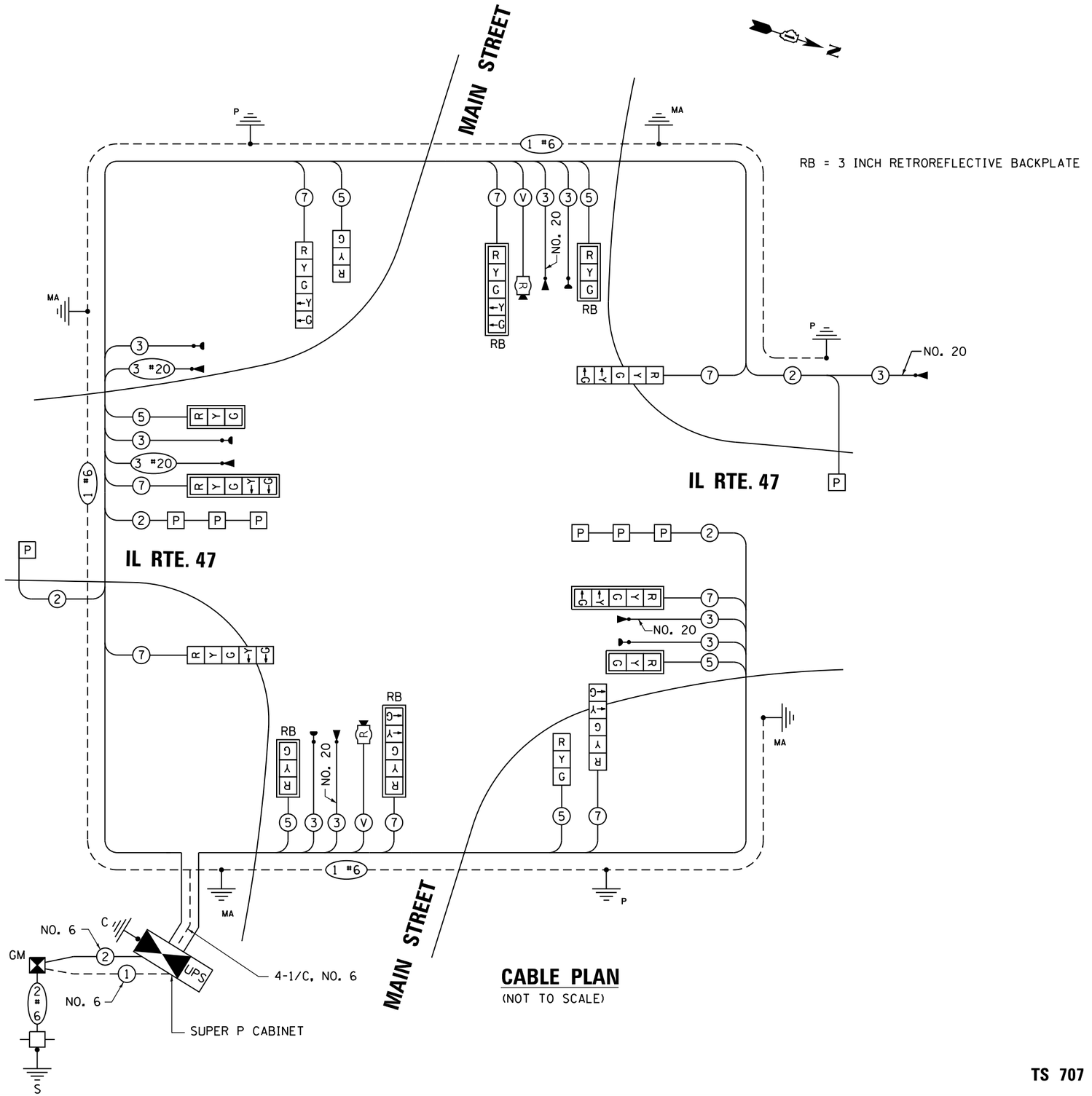


I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	WATTAGE x INCAND.	WATTAGE LED	% OPERATION	
SIGNAL (RED)	12		11	50	66.0
(YELLOW)	12		20	5	12.0
(GREEN)	12		12	45	64.8
PERMISSIVE ARROW	16		10	10	19.2
PED. SIGNAL	-		20	100	-
CONTROLLER	1		100	100	100.0
UPS	1		25	100	25.0
VIDEO SYSTEM	1		150	100	150.0
BLANK-OUT SIGN	-		25	5	-
FLASHER	-		-	50	-
STREET NAME SIGN	-		120	50	-
LUMINAIRE	-		-	-	-
				TOTAL=	437.0

ENERGY COST TO: IDOT
(EXCEPT EVP DEVICE COST TO KANE COUNTY)

IDOT REGION 1
201 W. CENTER COURT
SCHAUMBURG, IL 60196

ENERGY SUPPLY: CONTACT: KELI GONZALEZ
PHONE: (630) 723-2127
COMPANY: COMMONWEALTH EDISON



CABLE PLAN
(NOT TO SCALE)

TS SHT NO. 11

TS 707

D160721-sht-signal-cable plan.dgn

DBS STERLIN CONSULTANTS, INC.
123 N. WACKER DRIVE SUITE 2000
CHICAGO, ILLINOIS 60606
TEL: (312)857-1006 FAX: (312)857-1056

USER NAME = JKando	DESIGNED - BA	REVISED -
	DRAWN - BFH	REVISED -
PLOT SCALE = NTS	CHECKED - BA	REVISED -
PLOT DATE = 3/6/2019	DATE -	REVISED -

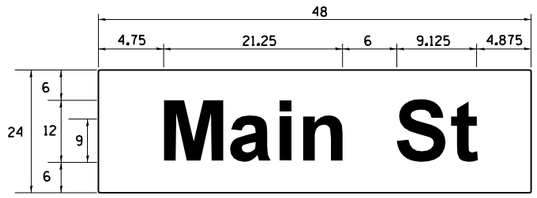
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL ROUTE 47 AT MAIN STREET

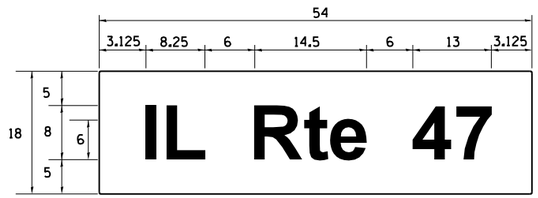
SCALE: 1" = 20' | SHEET 3 OF 4 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	107N-4	KANE	288	156
		CONTRACT NO. 60T21		
	ILLINOIS FED. AID PROJECT			

PANEL SIGN DESIGN TYPE 1



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	8.0	1	1	2



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	6.75	1	1	2

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	TOTAL QTY.
SIGN PANEL - TYPE 1	SQ FT	29.5
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	812
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	729
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	705
UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 1" DIA.	FOOT	32
HEAVY-DUTY HANDHOLE	EACH	6
DOUBLE HANDHOLE	EACH	2
MAINTENANCE OF EXISTING FLASHING BEACON INSTALLATION	EACH	3
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1,001
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1,710
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	2,274
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1,357
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	148
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	2,344
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2
TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 50 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 54 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 56 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 72 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	16
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	30
CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	46
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	4
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	4
TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	4
DETECTOR LOOP, TYPE I	FOOT	261
• LIGHT DETECTOR	EACH	5
• LIGHT DETECTOR AMPLIFIER	EACH	1
REMOVE EXISITNG SERVICE INSTALLATION	EACH	1
REMOVE EXISTING FLASHING BEACON INSTALLATION COMPLETE	EACH	1
• EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	1,630
TEMPORARY FLASHING BEACON - SPAN WIRE MOUNTED INSTALLATION	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET	EACH	1
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
RADAR VEHICLE DETECTION SYSTEM, SINGLE APPROACH, STOP BAR	EACH	2
UNINTERRUPTABLE POWER SUPPLY SPECIAL	EACH	1
INDUCTIVE LOOP DETECTOR, RACK MOUNTED	EACH	4

• 100% COST FOR EVP DEVICES TO KANE COUNTY

TS SHT NO. 12

D160721-sht-signal-500-Names.dgn

DBS STERLIN CONSULTANTS, INC.
123 N. WACKER DRIVE SUITE 2000
CHICAGO, ILLINOIS 60606
TEL. (312)857-1006 FAX. (312)857-1066

USER NAME = JKando	DESIGNED - BA	REVISED -
	DRAWN - BFH	REVISED -
PLOT SCALE = NTS	CHECKED - BA	REVISED -
PLOT DATE = 3/6/2019	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAST ARM MOUNTED STREET NAME SIGNS AND SCHEDULE OF QUANTITIES
IL ROUTE 47 AT MAIN STREET

SCALE: | SHEET 4 OF 4 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	107N-4	KANE	288	157
		CONTRACT NO. 60T21		
	ILLINOIS FED. AID PROJECT			

Benchmark: "□" cut on top of Southwest Wingwall on Main St. bridge over Blackberry Creek El. 728.26

Existing Structure: SN045-0049 was originally constructed in 1925 with reconstruction in 1975 under section 50-BR. The structure was repaired in 2003. The existing structure is a two span continuous concrete slab bridge on pile supported closed abutments and a solid concrete pier. The length of the bridge is 36'-0" back to back of abutments with an out to out deck width of 40'-6". The skew is 0°.

Existing structure is to be removed and replaced. Traffic shall be maintained using stage construction.

No Salvage

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration @ 1.0 sec (SD1) =0.089g
Design Spectral Acceleration @ 0.2 sec (SDS) =0.161g
Soil Site Class = D

LOADING HL-93

Allow 50#/sq. ft. for future wearing surface

DESIGN SPECIFICATIONS

2014 AASHTO LRFD Bridge Design Specifications 7th Edition with 2015 and 2016 Interims.

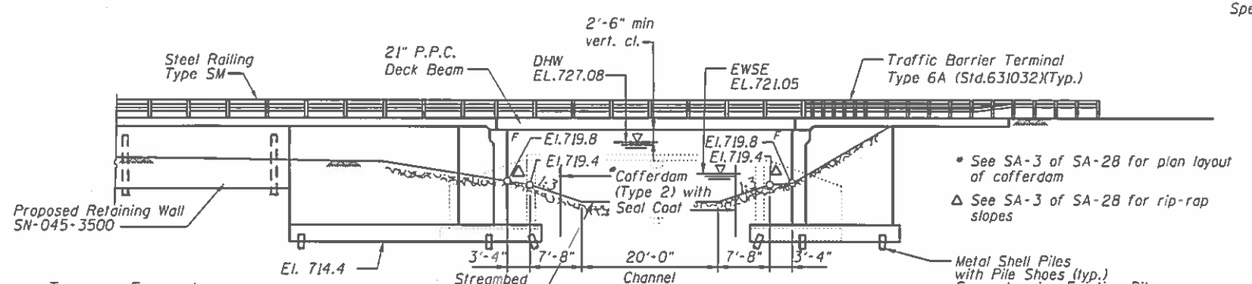
DESIGN STRESSES

FIELD UNITS

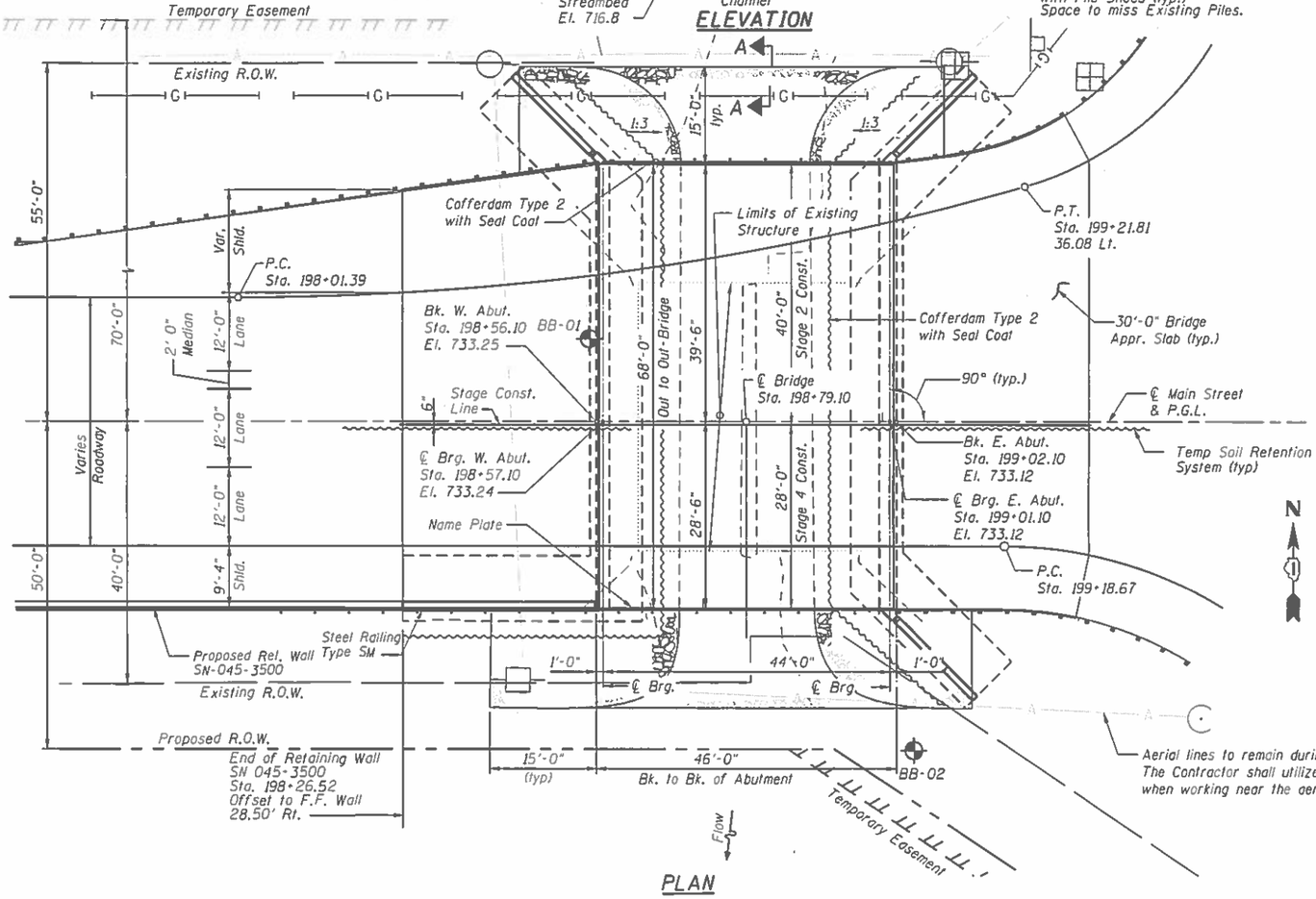
f'_c = 3,500 psi (substructure)
f'_c = 5,000 psi (superstructure)
f'_c = 5,000 psi (concrete wearing surface)
f_y = 60,000 psi (reinforcement)
f_y = 50,000 psi (M270 Grade 50)

PRECAST PRESTRESSED UNITS

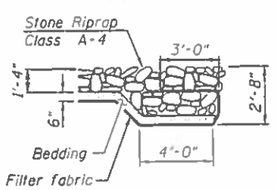
f'_c = 6,000 psi
$f'ci$ = 5,000 psi
fpu = 270,000 psi (½"ϕ low lax strands)
fpbt = 201,960 psi (½"ϕ low lax strands)



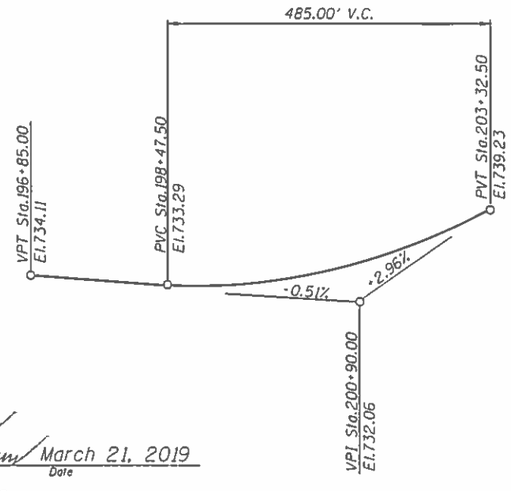
ELEVATION



PLAN



SECTION A-A



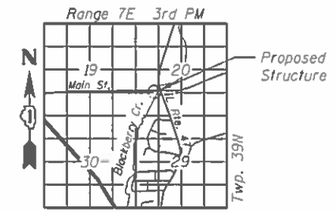
PROFILE GRADE
Along ℄ Main Street

LICENSED STRUCTURAL ENGINEER FREDRIC C. OWENS 081-005722 EXP. CHICAGO, IL STATE OF ILLINOIS

Signature March 21, 2019 Date

November 30, 2020 Expires

APPROVED
FOR STRUCTURAL ADEQUACY ONLY
ENGINEER OF BRIDGES AND STRUCTURES



LOCATION SKETCH

GENERAL PLAN & ELEVATION
MAIN ST. OVER BLACKBERRY CREEK
F.A.P. RTE. 524
SECTION 107 N-4
KANE COUNTY
STATION 198+79.10
STRUCTURE NO. 045-3069

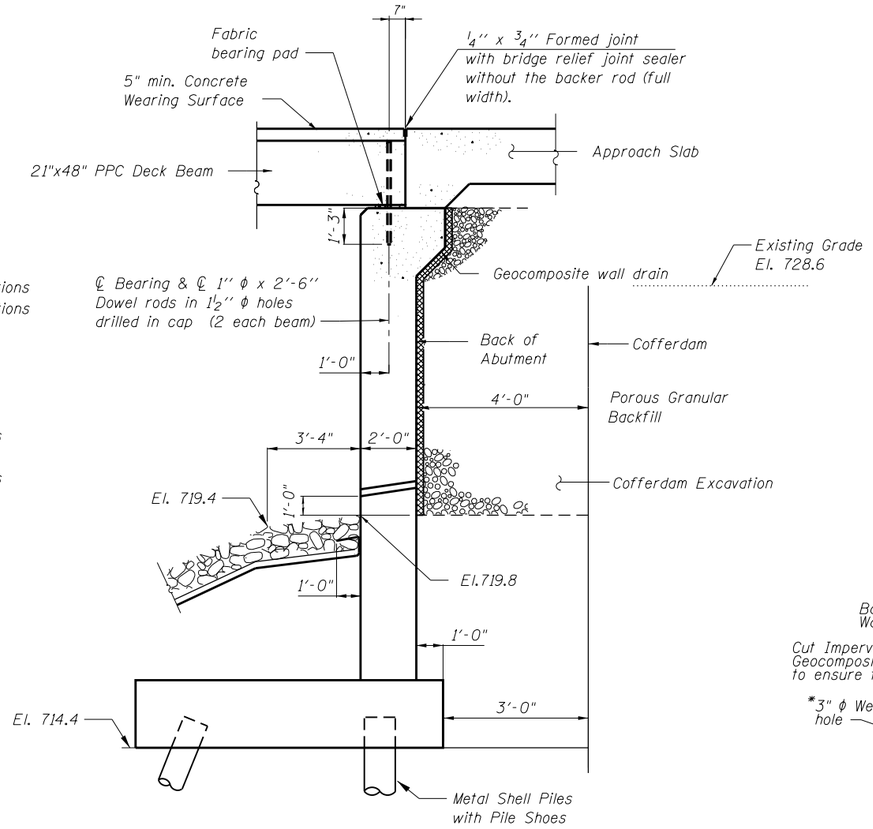
FILE NAME = P:\2015\15558 1001 Dist\E. Route 47 at Main St of Elburn PTB 177-041\B4-CADD\B1 CADD Sheets\D1158721-Sh-1 General Plan & Elevation.dgn

USER NAME = teledge	DESIGNED - LAS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	CHECKED - DAZ	REVISED -	
PLOT SCALE = 16.8333 ' / in.	DRAWN - TCS	REVISED -	
PLOT DATE = 3/25/2019	CHECKED - LAS	REVISED -	

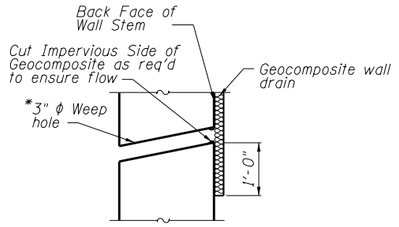
GENERAL PLAN & ELEVATION
STRUCTURE NO. 045-3069
SHEET NO. SA-1 OF SA-28 SHEETS

F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	107N-4	KANE	288	156
		CONTRACT NO. 60T21		
	ILLINOIS FED. AID PROJECT			

INDEX OF SHEETS



SECTION THRU ABUTMENT



WEEP HOLE DRAIN DETAIL

*Weep hole spacing shall be at ± 8'-0" horizontally

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A4	Sq. Yd.		567	567
Filter Fabric	Sq. Yd.		567	567
Removal of Existing Structures No.1	Each			1
Cofferdam Excavation	Cu. Yd.		1.172	1.172
Cofferdam (Type 2) (Location-1)	Each		1	1
Cofferdam (Type 2) (Location-2)	Each		1	1
Concrete Structures	Cu. Yd.		418	418
Bridge Deck Grooving	Sq. Yd.	787		787
Seal Coat Concrete	Cu. Yd.		598.8	598.8
Protective Coat	Sq. Yd.	802		802
Concrete Superstructure (Approach Slab)	Cu. Yd.	195		195
Precast Prestressed Concrete Deck Beams (21" Depth)	Sq. Ft.	3072		3072
Reinforcement Bars, Epoxy Coated	Pound	87,030	51,860	138,890
Bar Splicers	Each	258	176	434
Steel Railing, Type SM	Foot	120		120
Furnishing Metal Shell Piles 14"x.312"	Foot		1,781	1,781
Driving Piles	Foot		1,781	1,781
Test Pile Metal Shells	Each		2	2
Pile Shoes	Each		75	75
Temporary Bridge Complete	Each	1		1
Name Plates	Each	1		1
Temporary Soil Retention System	Sq. Ft.		1,514	1,514
Geocomposite Wall Drain	Sq. Yd.		241	241
Concrete Wearing Surface, 5"	Sq. Yd.	342		342
Granular Backfill for Structures	Cu. Yd.		322	322
Temporary Slab Support System	Each		4	4

GENERAL NOTES

1. Reinforcement bars designated (E) shall be epoxy coated.
2. Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
3. The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction at the abutments.
4. Seal coat thickness design is based on the Estimated Water Surface Elevation (EWSE). Cofferdam design details and proposed changes in seal coat thickness shall be submitted to the Engineer for approval with the cofferdam design.
5. Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure. The Contractor shall sawcut the upper portion of the existing abutment at the stage removal line before Stage 2 removal to ensure the remaining portion will not be prematurely damaged.
6. A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.
7. Contractor to submit a Structural Assessment Report for the attachment and removal of the temporary bridge to the existing bridge.
8. The Contractor is advised that the existing concrete deck slab is in advanced deteriorated condition with reduced load carrying capacity. It is the Contractor's responsibility to account for the condition of the existing structure when developing construction procedures for the complete or partial removal, or replacement of the structure. An Existing Structure Information Package is available upon request as noted in the special provisions.

STATION 198+79.10
BUILT BY
STATE OF ILLINOIS
F.A.P. RT. 524 SEC. 107 N-4
LOADING HL-93
STRUCTURE NO. 045-3069

NAME PLATE

See Std. 515001

WATERWAY INFORMATION

Drainage Area = 11.68 Square Miles Max. Recorded H.W.E. = N/A
Existing Low Grade Elev. - 728.61 at Sta.199+00
Proposed Low Grade Elev. -732.09 at Sta.198+00

Flood	Freq. Yr.	Discharge C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
	10	634	308.04	398.64	725.84	0.12	0.05	725.96	725.89
Design	50	1120	350.20	453.20	727.08	0.40	0.10	727.48	727.18
Base	100	1376	366.18	473.88	727.55	0.38	0.14	727.93	727.69
Max. Calc.	500	2097	400.18	517.88	728.55	1.23	0.31	729.78	728.86

10 Year Velocity thru Existing Bridge= 2.06 fps
10 Year Velocity thru Proposed Bridge= 1.59 fps
2-Year Flow Rate = 265 cfs

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevations (ft.)	W. Abut.	E. Abut.	Item 113
Q100	711.03	714.09	5
Q500	705.08	709.23	
Design	711.03	714.09	
Check	705.08	709.23	

CURRENT RATINGS ON FILE FOR EXISTING STRUCTURE

Inventory: HS 14
Operating: HS 23
Live Load Restrictions: No

Inventory and Operating Ratings and Live Load Restrictions are provided for information only. Inventory and Operating Ratings are based on HS loading and configuration. Live Load Restrictions are based on Illinois legal loads and configurations. The Ratings and Live Load Restrictions are not necessarily representative of capacities to support the Contractor's equipment.

FILE NAME = P:\2015\0558 IDOT Dist IL Route 47 at Main S of Elburn (PTB 171-041\04-CADD\01 CADD\Sheets\D16BT21-SA-2.GenData.dgn

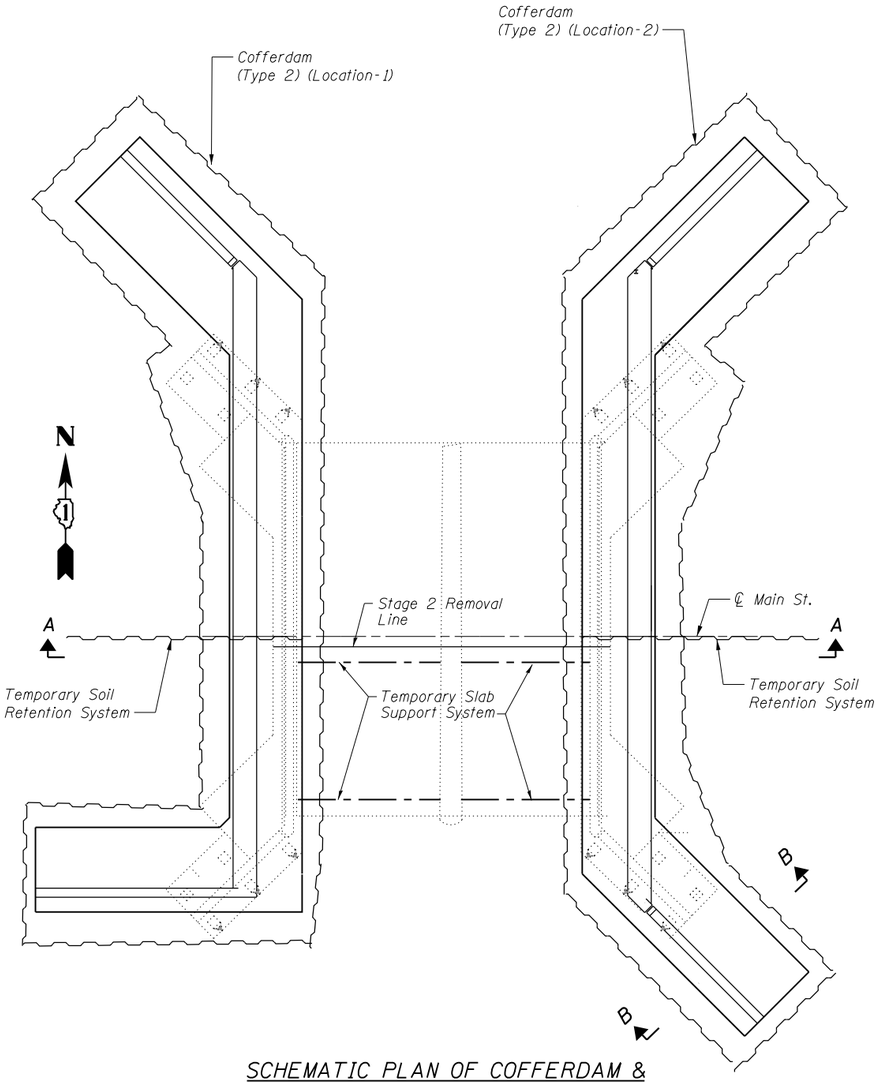
HILHOUSE

USER NAME = yayyoub	DESIGNED - LAS	REVISED -	
	CHECKED - DAZ	REVISED -	
PLOT SCALE = 02.0000 '' / in.	DRAWN - TCS	REVISED -	
PLOT DATE = 3/22/2019	CHECKED - LAS	REVISED -	

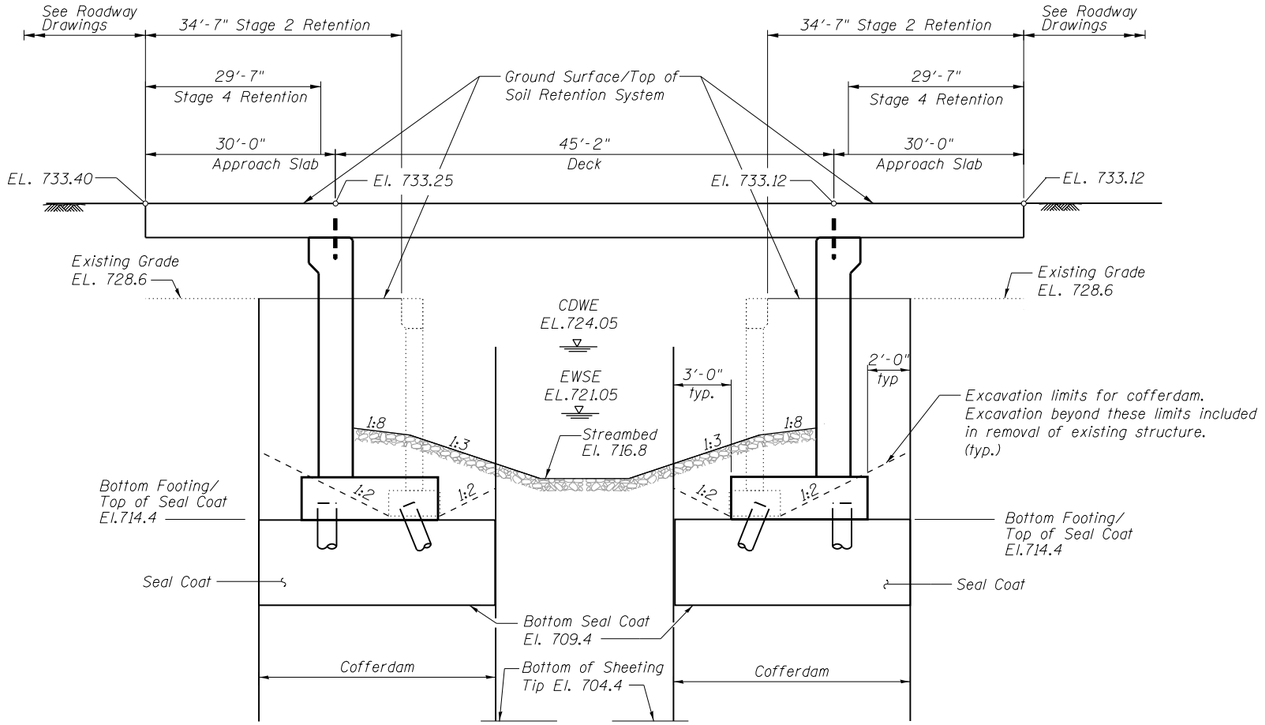
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL DATA
STRUCTURE NO. 045-3069
SHEET NO. SA-2 OF SA-28 SHEETS

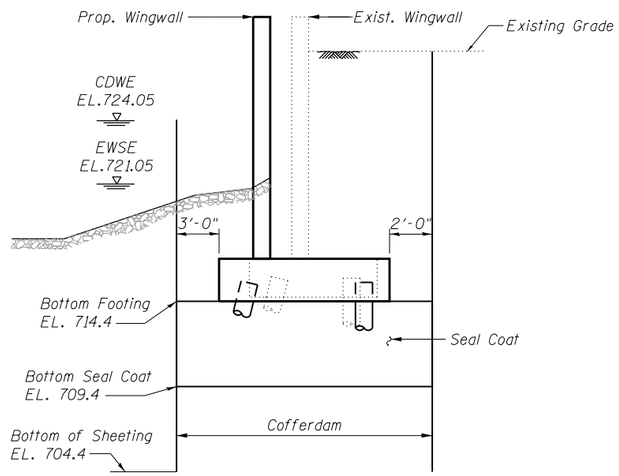
F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	107N-4	KANE	288	159
		CONTRACT NO. 60T21		
	ILLINOIS	FED. AID PROJECT		



SCHEMATIC PLAN OF COFFERDAM &
TEMPORARY SLAB SUPPORT SYSTEM



SECTION A-A



SECTION B-B

BILL OF MATERIAL

Item	Unit	Quantity
Coffderdam Excavation	Cu. Yd.	1,172
Temporary Soil Retention System	Sq. Ft.	1,514
Seal Coat Concrete	Cu. Yd.	598.8
Temporary Slab Support System	Each	4

FILE NAME = P:\2015\0558 IDOT Dist 1L Route 47 at Main S of Elburn (PTB 171-04)\04-CADD\01 CADD Sheets\D160721-SA-3_CofFerdam.dgn

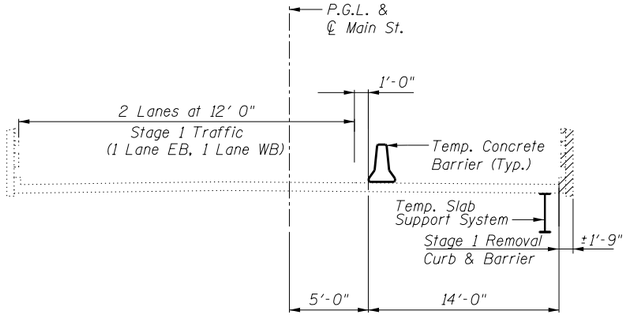
MILHOUSE

USER NAME = yayyoub	DESIGNED - LAS	REVISED -	
	CHECKED - DAZ	REVISED -	
PLOT SCALE = 6:8.0000 '' / in.	DRAWN - TCS	REVISED -	
PLOT DATE = 3/22/2019	CHECKED - LAS	REVISED -	

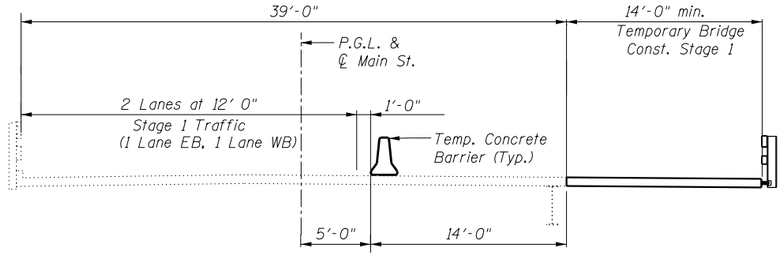
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY SOIL RETENTION SYSTEM & COFFERDAM DETAILS
STRUCTURE NO. 045-3069
SHEET NO. SA-3 OF SA-28 SHEETS

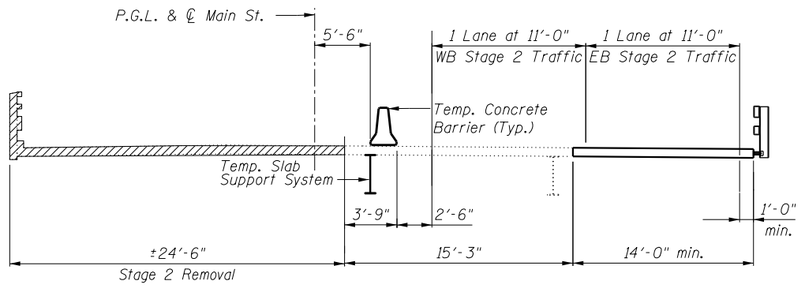
F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	107N-4	KANE	288	160
		CONTRACT NO. 60T21		
	ILLINOIS FED. AID PROJECT			



STAGE 1 REMOVAL
(Looking East)



STAGE 1 CONSTRUCTION
(Looking East)



STAGE 2 REMOVAL
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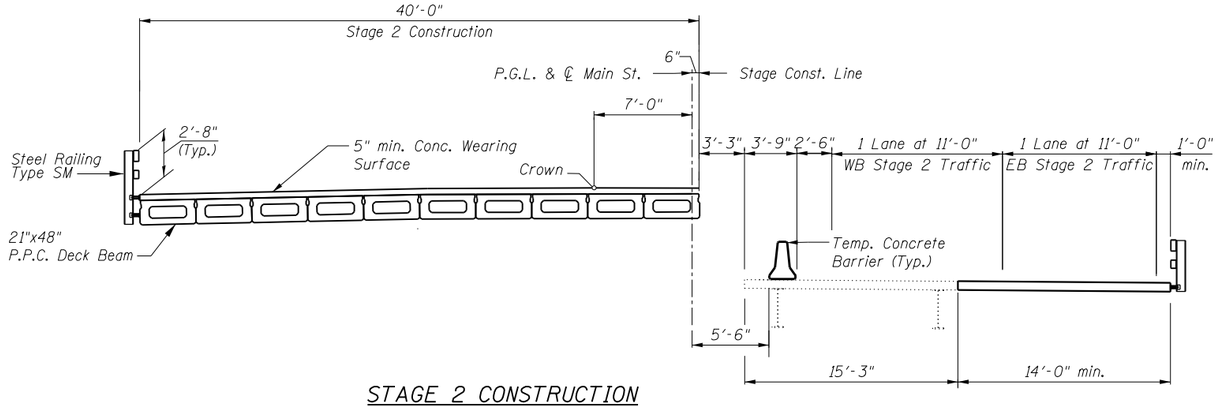
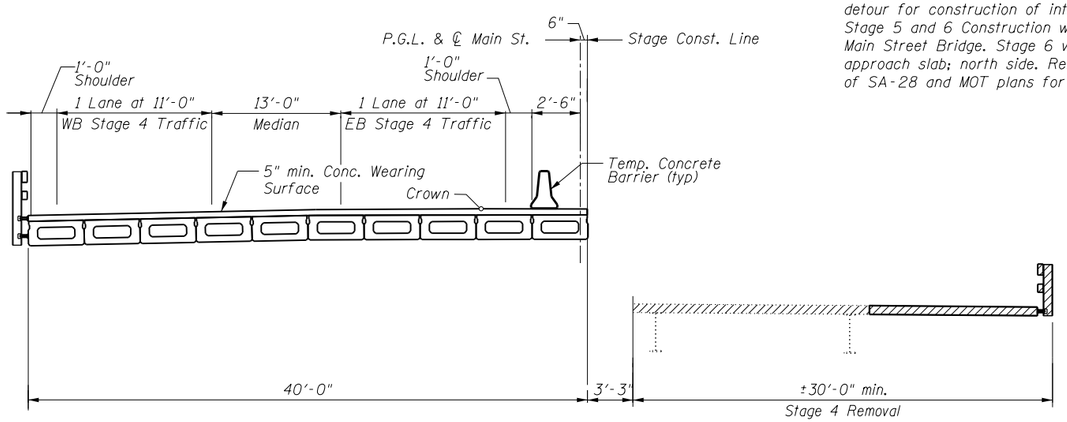
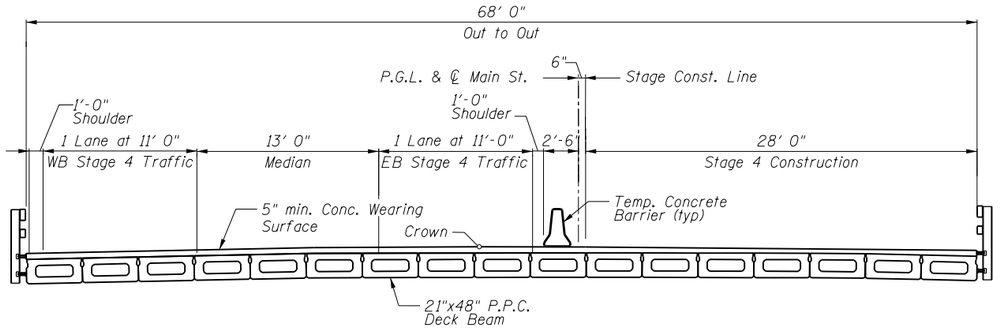


STAGE 2 CONSTRUCTION
(Looking East)

Note: Stage 3 Construction is a 1 week Main Street detour for construction of intersection. Stage 5 and 6 Construction will occur off the Main Street Bridge. Stage 6 will include the east approach slab; north side. Refer to sheet SA-15 of SA-28 and MOT plans for more information.



STAGE 4 REMOVAL
(Looking East)



STAGE 4 CONSTRUCTION
(Looking East)

LEGEND

Removal

HILLHOUSE	USER NAME = yayoub	DESIGNED - LAS	REVISED -
		CHECKED - DAZ	REVISED -
	PLOT SCALE = 10.8333 ' / in.	DRAWN - TCS	REVISED -
	PLOT DATE = 3/22/2019	CHECKED - LAS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION
STRUCTURE NO. 045-3069
SHEET NO. SA-4 OF SA-28 SHEETS

F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	107N-4	KANE	288	161
		CONTRACT NO. 60T21		
	ILLINOIS FED. AID PROJECT			

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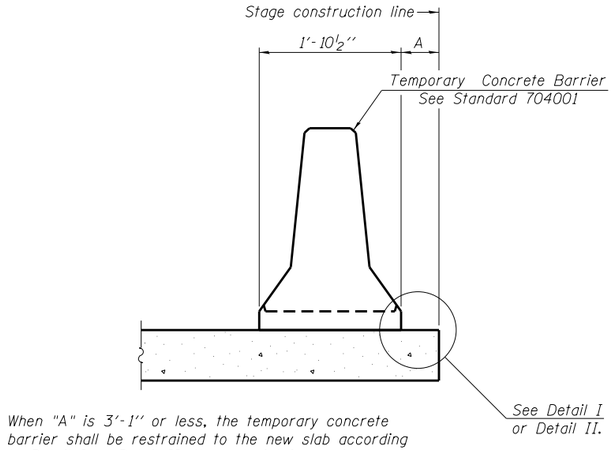
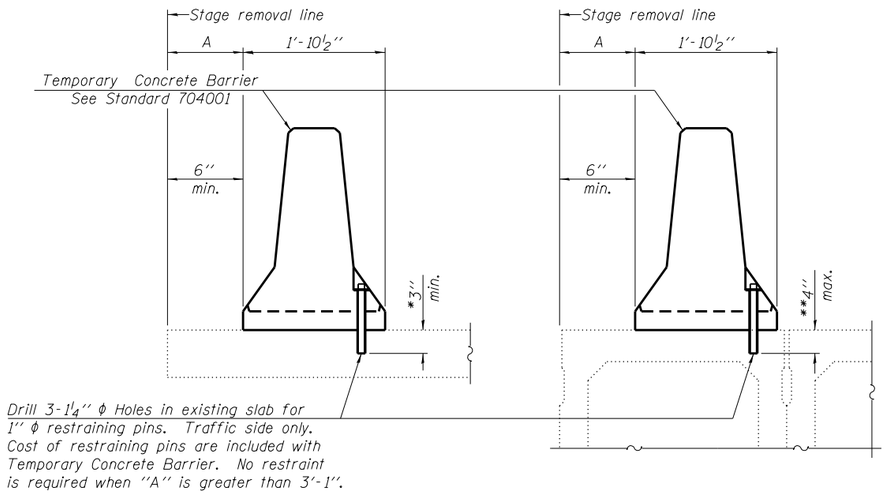


When "A" is 3'-1'' or less, the temporary concrete barrier shall be restrained to the new slab according to Detail I or Detail II. No restraint is required when "A" is greater than 3'-1''.

NEW SLAB



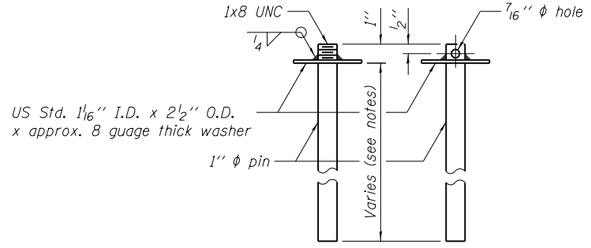
EXISTING SLAB

EXISTING DECK BEAM

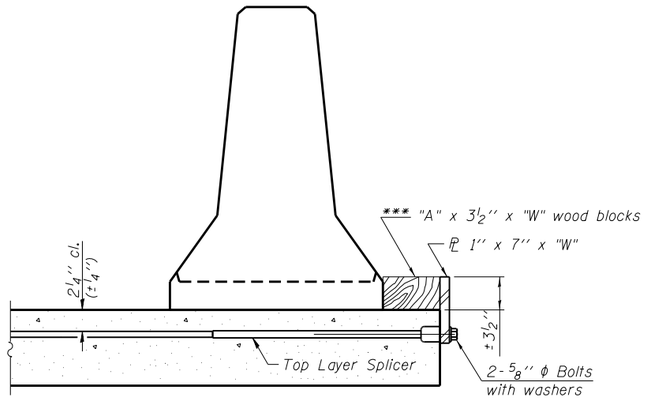
SECTIONS THRU SLAB OR DECK BEAM

* Dimension shown is minimum required embedment into concrete. If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.

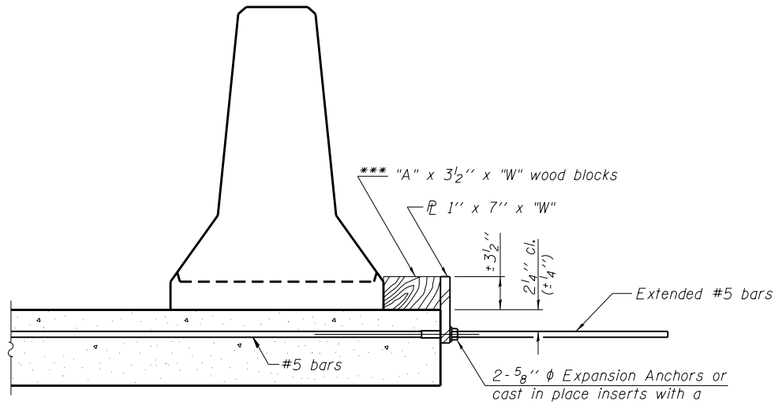
** If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



RESTRAINING PIN



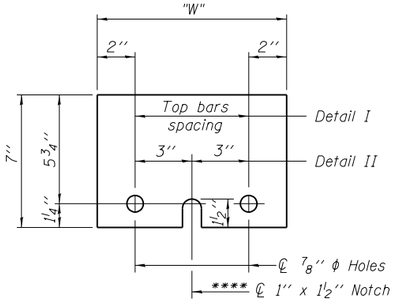
DETAIL I



DETAIL II

RETAINER ASSEMBLY

*** Wood blocks may be omitted when required to provide minimum stage traffic lane width. When the wood blocks are omitted, the concrete barrier shall be in direct contact with the steel retainer plate.



STEEL RETAINER ℄ 1'' x 7'' x ''W''

**** Required only with Detail II

NOTES

Detail I - With Bar Splicer or Couplers:
Connect one (1) 1'' x 7'' x ''W'' steel ℄ to the top layer of couplers with 2-⅝'' ϕ bolts screwed to coupler at approximate ℄ of each barrier panel.

Detail II - With Extended Reinforcement Bars:
Connect one (1) 1'' x 7'' x ''W'' steel ℄ to the concrete slab or concrete wearing surface with 2-⅝'' ϕ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate ℄ of each barrier panel.

Cost of retainer assembly is included with Temporary Concrete Barrier.

The 1'' x 7'' x ''W'' plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

R-27

2-19-16

FILE NAME = P:\2015\09568 IDOT Dist1 IL Route 47 at Main S of Elburn (PTB 171-041\04-CADD\01 CADD Sheets\D160721-SA-5_TempConcBarr.dgn

MILHOUSE

USER NAME = yayyoub	DESIGNED - LAS	REVISED -	
	CHECKED - DAZ	REVISED -	
PLOT SCALE = 0.1667 '/ in.	DRAWN - TCS	REVISED -	
PLOT DATE = 3/22/2019	CHECKED - LAS	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
STRUCTURE NO. 045-3069
SHEET NO. SA-5 OF SA-28 SHEETS

F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	107N-4	KANE	288	162
		CONTRACT NO. 60T21		
	ILLINOIS FED. AID PROJECT			

NORTH EDGE OF SHOULDER

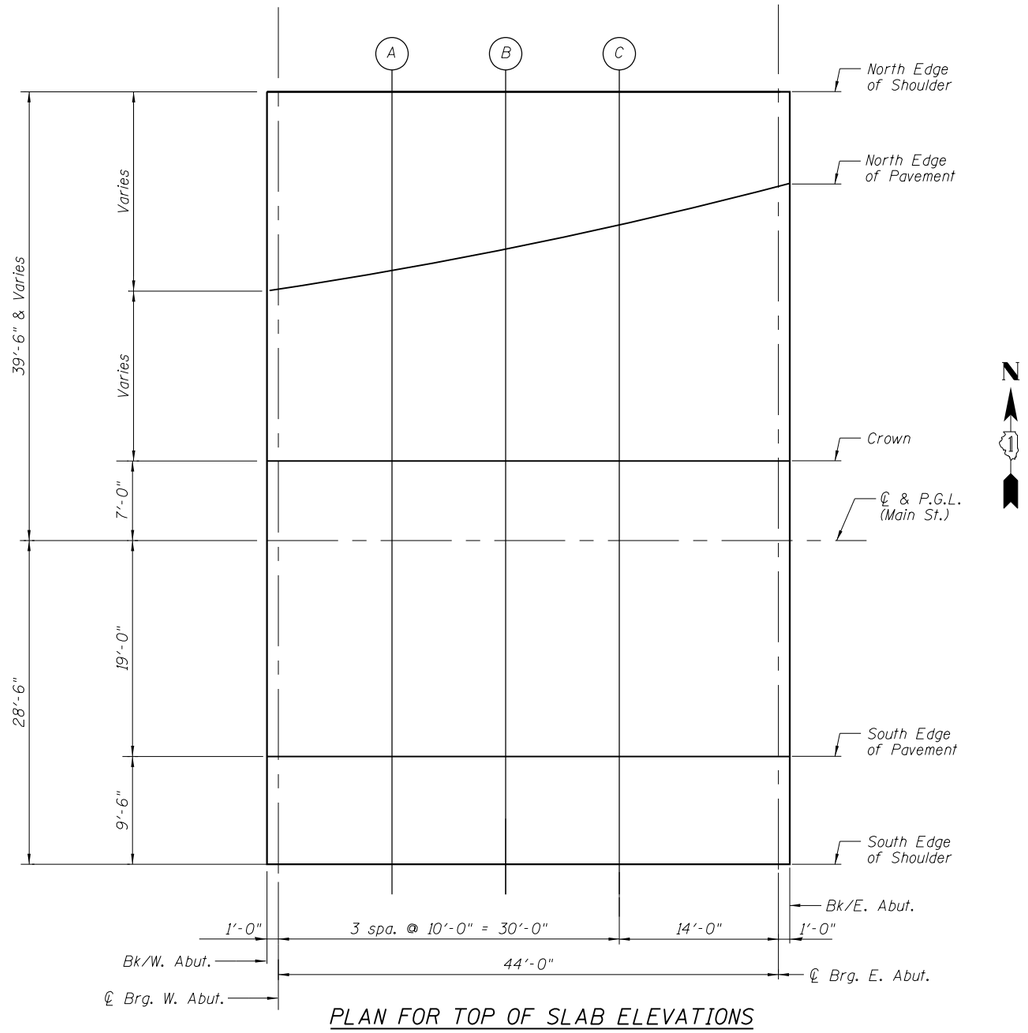
Location	Station	Offset	Theoretical Grade Elevations
Bk W. Abut.	198+56.10	-39.50	732.45
CL Brg W. Abut.	198+57.10	-39.50	732.44
A	198+67.10	-39.50	732.43
B	198+77.10	-39.50	732.44
C	198+87.10	-39.50	732.47
CL Brg E. Abut.	199+01.10	-39.50	732.52
Bk E. Abut.	199+02.10	-39.50	732.52

NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
Bk W. Abut.	198+56.10	-22.47	733.12
CL Brg W. Abut.	198+57.10	-22.60	733.12
A	198+67.10	-24.01	733.05
B	198+77.10	-25.67	733.00
C	198+87.10	-27.67	732.94
CL Brg E. Abut.	199+01.10	-30.64	732.87
Bk E. Abut.	199+02.10	-30.87	732.87

CROWN

Location	Station	Offset	Theoretical Grade Elevations
Bk W. Abut.	198+56.10	-7.00	733.35
CL Brg W. Abut.	198+57.10	-7.00	733.35
A	198+67.10	-7.00	733.31
B	198+77.10	-7.00	733.28
C	198+87.10	-7.00	733.25
CL Brg E. Abut.	199+01.10	-7.00	733.23
Bk E. Abut.	199+02.10	-7.00	733.23



PLAN FOR TOP OF SLAB ELEVATIONS

CENTERLINE & PROFILE GRADE LINE

Location	Station	Offset	Theoretical Grade Elevations
Bk W. Abut.	198+56.10	0.00	733.25
CL Brg W. Abut.	198+57.10	0.00	733.24
A	198+67.10	0.00	733.20
B	198+77.10	0.00	733.17
C	198+87.10	0.00	733.15
CL Brg E. Abut.	199+01.10	0.00	733.12
Bk E. Abut.	199+02.10	0.00	733.12

SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
Bk W. Abut.	198+56.10	19.00	732.96
CL Brg W. Abut.	198+57.10	19.00	732.96
A	198+67.10	19.00	732.92
B	198+77.10	19.00	732.89
C	198+87.10	19.00	732.86
CL Brg E. Abut.	199+01.10	19.00	732.84
Bk E. Abut.	199+02.10	19.00	732.84

SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
Bk W. Abut.	198+56.10	28.50	732.58
CL Brg W. Abut.	198+57.10	28.50	732.58
A	198+67.10	28.50	732.54
B	198+77.10	28.50	732.51
C	198+87.10	28.50	732.48
CL Brg E. Abut.	199+01.10	28.50	732.46
Bk E. Abut.	199+02.10	28.50	732.46

MILHOUSE

USER NAME = yayyoub	DESIGNED - LAS	REVISED -
	CHECKED - DAZ	REVISED -
PLOT SCALE = 13.3333 ' / in.	DRAWN - TCS	REVISED -
PLOT DATE = 3/22/2019	CHECKED - LAS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 045-3069
SHEET NO. SA-6 OF SA-28 SHEETS

F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	107N-4	KANE	288	163
		CONTRACT NO. 60T21		
	ILLINOIS	FED. AID PROJECT		

NORTH EDGE OF SHOULDER

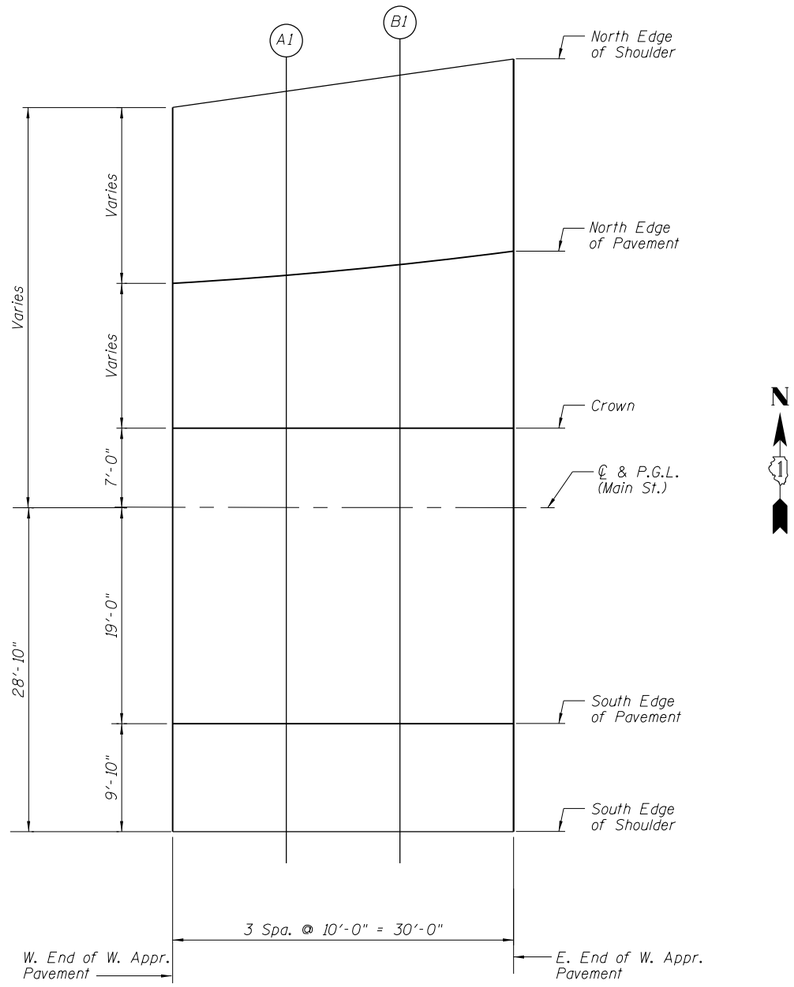
Location	Station	Offset	Theoretical Grade Elevations
W End W Appr Pvt	198+26.52	-35.56	732.68
A1	198+36.52	-36.99	732.59
B1	198+46.52	-38.41	732.50
E End W Appr Pvt	198+56.52	-39.83	732.43

NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W End W Appr Pvt	198+26.52	-19.73	733.31
A1	198+36.52	-20.43	733.25
B1	198+46.52	-21.36	733.18
E End W Appr Pvt	198+56.52	-22.52	733.12

CROWN

Location	Station	Offset	Theoretical Grade Elevations
W End W Appr Pvt	198+26.52	-7.00	733.50
A1	198+36.52	-7.00	733.45
B1	198+46.52	-7.00	733.40
E End W Appr Pvt	198+56.52	-7.00	733.35



WEST APPROACH
PLAN FOR TOP OF SLAB ELEVATIONS

CENTERLINE & PROFILE GRADE LINE

Location	Station	Offset	Theoretical Grade Elevations
W End W Appr Pvt	198+26.52	0.00	733.40
A1	198+36.52	0.00	733.35
B1	198+46.52	0.00	733.29
E End W Appr Pvt	198+56.52	0.00	733.25

SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W End W Appr Pvt	198+26.52	19.00	733.11
A1	198+36.52	19.00	733.06
B1	198+46.52	19.00	733.01
E End W Appr Pvt	198+56.52	19.00	732.96

SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W End W Appr Pvt	198+26.52	28.83	732.72
A1	198+36.52	28.83	732.67
B1	198+46.52	28.83	732.62
E End W Appr Pvt	198+56.52	28.83	732.57

FILE NAME = P:\2015\0558 IDOT Dist IL Route 47 at Main S of Elburn (PTB 171-041\04-CADD\01 CADD Sheets\D160T21-SA-7 West Approach Top of Slab Elev.dgn

MILHOUSE

USER NAME = yayyoub	DESIGNED - LAS	REVISED -	
	CHECKED - DAZ	REVISED -	
PLOT SCALE = 13.3333 ' / in.	DRAWN - TCS	REVISED -	
PLOT DATE = 3/22/2019	CHECKED - LAS	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF WEST APPROACH SLAB ELEVATIONS
STRUCTURE NO. 045-3069
SHEET NO. SA-7 OF SA-28 SHEETS

F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	107N-4	KANE	288	164
		CONTRACT NO. 60T21		
	ILLINOIS FED. AID PROJECT			

NORTH EDGE OF SHOULDER

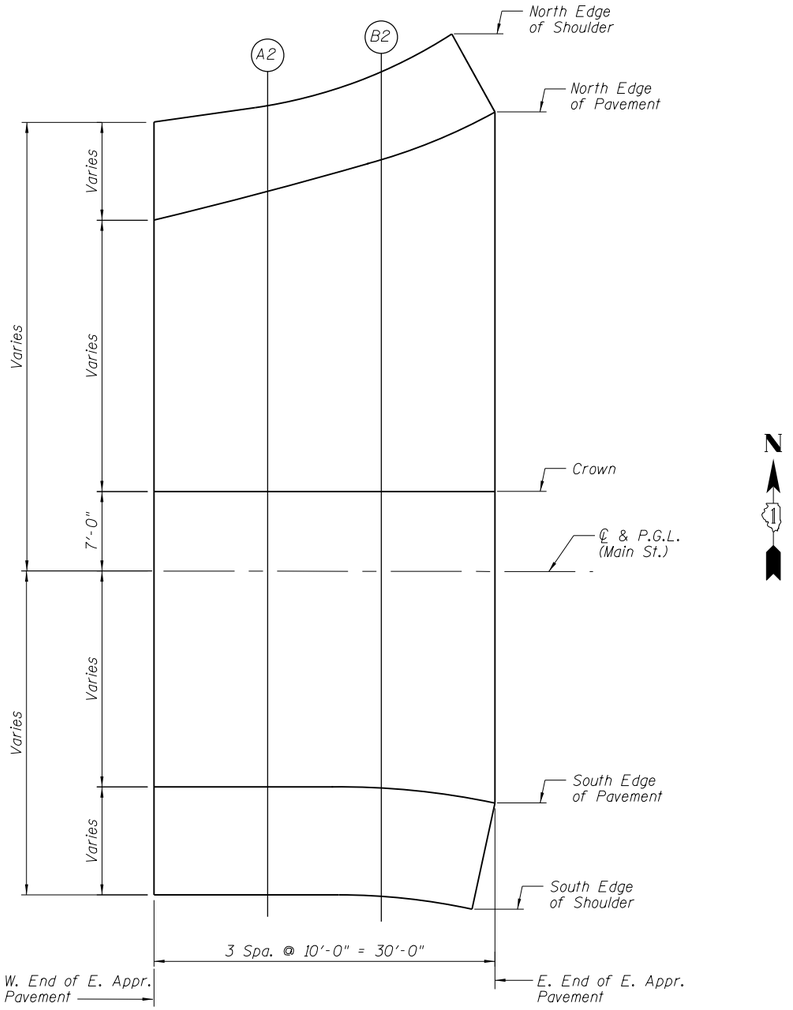
Location	Station	Offset	Theoretical Grade Elevations
W End E Appr Pvt	199+01.68	-39.83	732.51
A2	199+11.68	-41.21	732.51
B2	199+21.68	-44.08	732.46
E End E Appr Pvt	199+28.39	-47.29	732.44

NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W End E Appr Pvt	199+01.68	-30.77	732.87
A2	199+11.68	-33.28	732.82
B2	199+21.68	-36.04	732.78
E End E Appr Pvt	199+31.68	-40.12	732.73

CROWN

Location	Station	Offset	Theoretical Grade Elevations
W End E Appr Pvt	199+01.68	-7.00	733.23
A2	199+11.68	-7.00	733.22
B2	199+21.68	-7.00	733.22
E End E Appr Pvt	199+31.68	-7.00	733.22



EAST APPROACH
PLAN FOR TOP OF SLAB ELEVATIONS

CENTERLINE & PROFILE GRADE LINE

Location	Station	Offset	Theoretical Grade Elevations
W End E Appr Pvt	199+01.68	0.00	733.12
A2	199+11.68	0.00	733.11
B2	199+21.68	0.00	733.11
E End E Appr Pvt	199+31.68	0.00	733.12

SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W End E Appr Pvt	199+01.68	19.00	732.84
A2	199+11.68	19.00	732.83
B2	199+21.68	19.07	732.82
E End E Appr Pvt	199+31.68	20.31	732.81

SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W End E Appr Pvt	199+01.68	28.83	732.44
A2	199+11.68	28.83	732.43
B2	199+21.68	28.93	732.43
E End E Appr Pvt	199+30.18	29.98	732.42

FILE NAME = P:\2015\0558 IDOT Dist IL Route 47 at Main S of Elburn (PTB 171-041\04-CADD\01 CADD Sheets\D160T21-SA-8 East Approach Top of Slab Elev.dgn

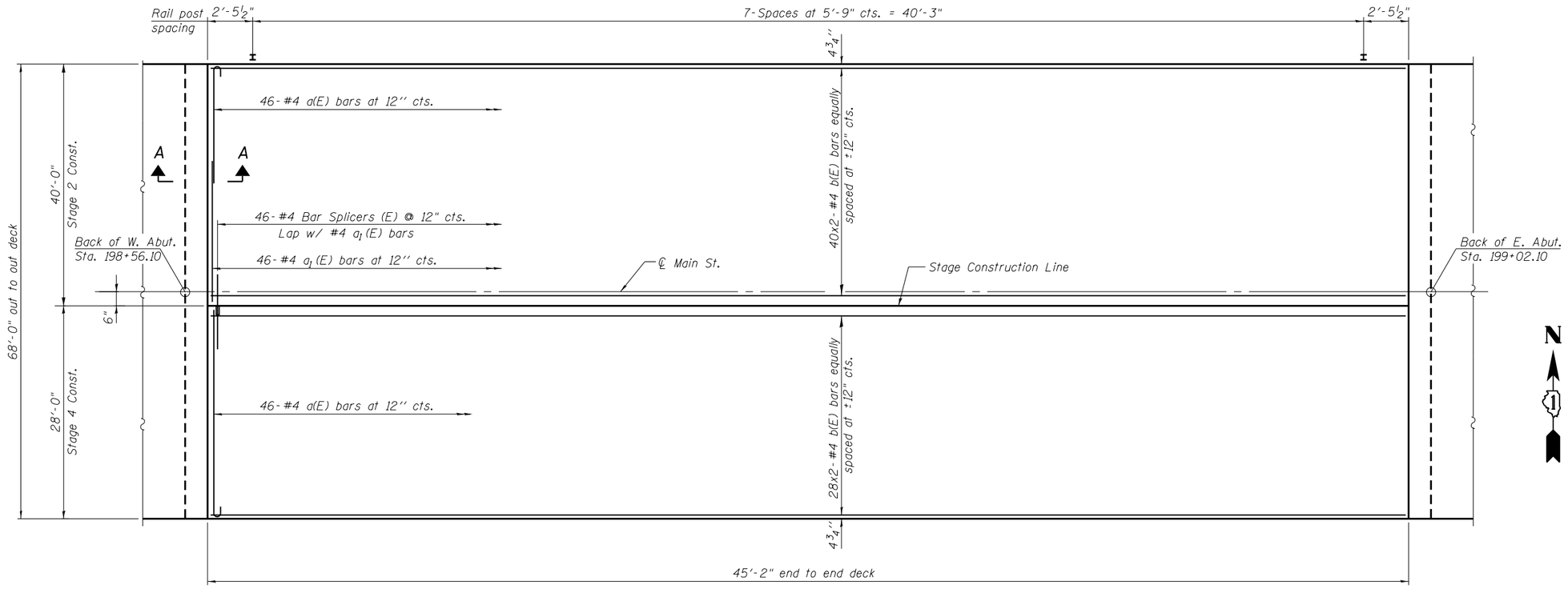
MILHOUSE

USER NAME = ygyoub	DESIGNED - LAS	REVISED -
	CHECKED - DAZ	REVISED -
PLOT SCALE = 13.3333 ' / in.	DRAWN - TCS	REVISED -
PLOT DATE = 3/22/2019	CHECKED - LAS	REVISED -

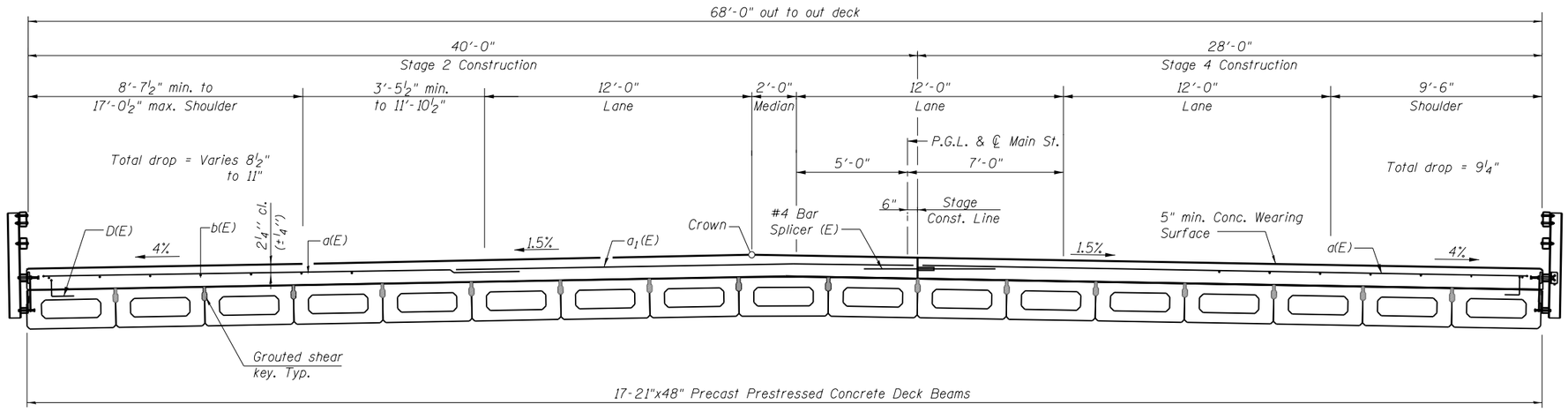
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF EAST APPROACH SLAB ELEVATIONS
STRUCTURE NO. 045-3069
SHEET NO. SA-8 OF SA-28 SHEETS

F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	107N-4	KANE	288	165
		CONTRACT NO. 60T21		
	ILLINOIS FED. AID PROJECT			



PLAN



CROSS SECTION
(Looking East)

Notes:
All concrete wearing surfaces shall be placed prior to casting a backwall and/or approach slab.
See sheet SA-12 of SA-28 for fabric bearing pad details.
See Sheet SA-10 of SA-28 for Section A-A.
See sheet SA-10 of SA-28 for Superstructure Details and Bill of Material.
Bars indicated thus 68x2-#4 etc. indicates 68 lines of bars with 2 lengths per line.

MINIMUM BAR LAP
#4 bar = 2'-2"

FILE NAME = P:\2015\0558 IDOT Dist IL Route 47 at Main S of Elburn (PTB 171-041)\04-CADD\01 CADD Sheets\D160121-SA-9_Superstructure.dgn

MILHOUSE

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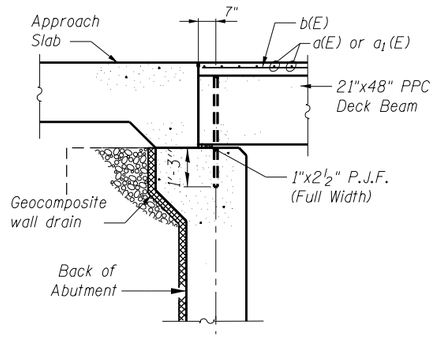
	CHECKED - DAZ	REVISED -	
PLOT SCALE = 6.0000 ' / in.	DRAWN - TCS	REVISED -	
PLOT DATE = 3/22/2019	CHECKED - LAS	REVISED -	

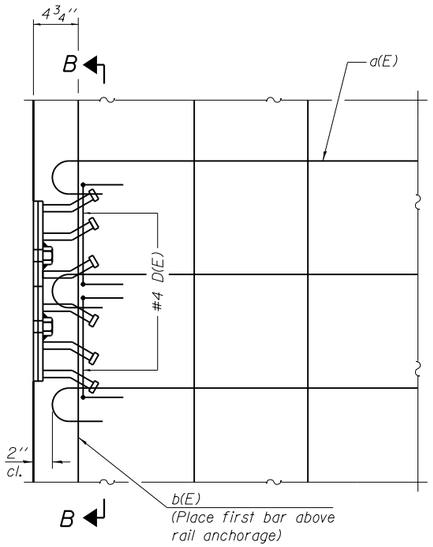
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE
STRUCTURE NO. 045-3069
SHEET NO. SA-9 OF SA-28 SHEETS

F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	107N-4	KANE	288	166
		CONTRACT NO. 60T21		
	ILLINOIS FED. AID PROJECT			

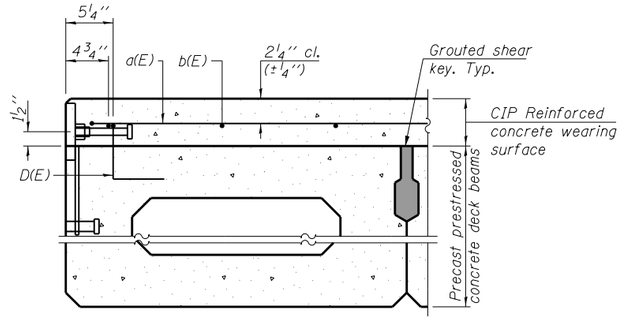


SECTION A-A

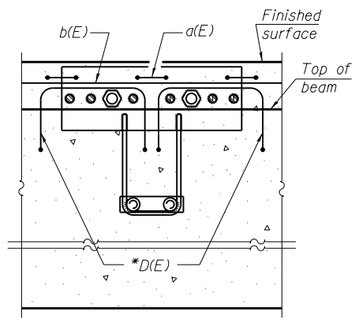


PLAN

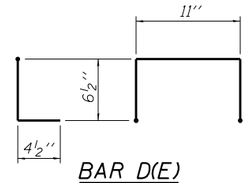
Notes:
Formwork necessary for the wearing surface may be secured utilizing the bottom rail anchorage inserts and/or additional inserts cast into the beam.



SECTION THRU FASCIA BEAM

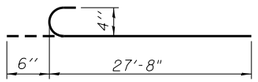


SECTION B-B



BAR D(E)

* Place 2-#4 D(E) bars in beam at each post location as shown. D(E) bar included in cost of beam.



BAR a(E)

ANTICIPATED CONCRETE WEARING SURFACE PROFILE
(For information only)

SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	92	#4	28'-2"	
a_1(E)	46	#4	14'-2"	
b(E)	136	#4	23'-8"	
Reinforcement Bars, Epoxy Coated			Pound	4,320
Concrete Wearing Surface, 5"			Sq. Yd.	342

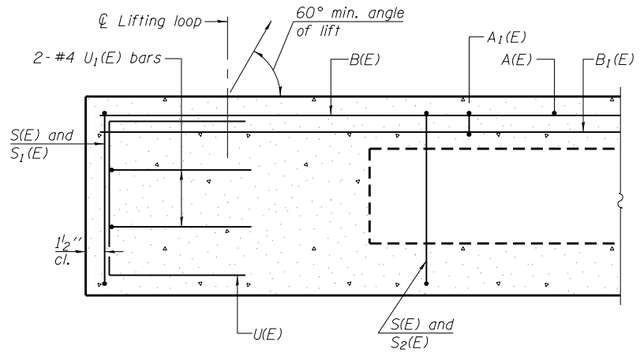
MILHOUSE

USER NAME = yayyoub	DESIGNED - LAS	REVISED -	
	CHECKED - DAZ	REVISED -	
PLOT SCALE = 0.1667 ' / in.	DRAWN - TCS	REVISED -	
PLOT DATE = 3/22/2019	CHECKED - LAS	REVISED -	

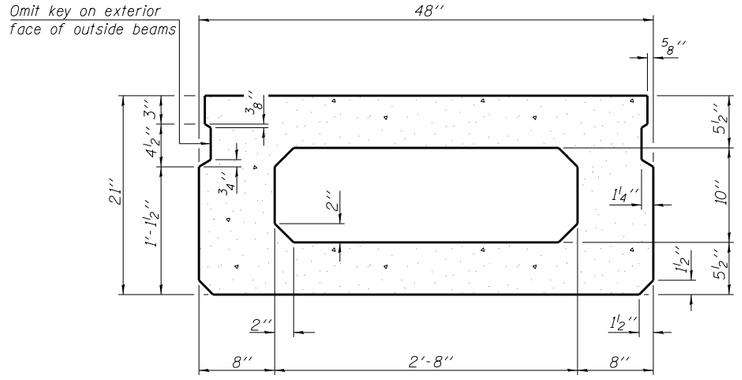
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS
STRUCTURE NO. 045-3069
SHEET NO. SA-10 OF SA-28 SHEETS

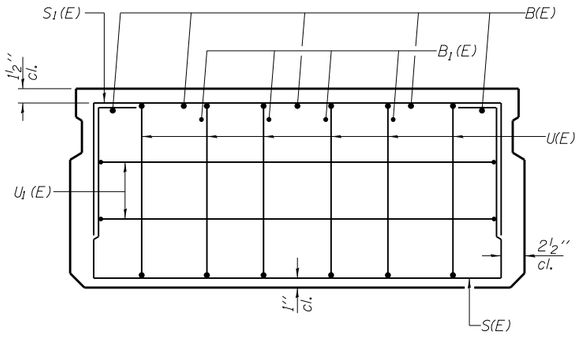
F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	107N-4	KANE	288	167
		CONTRACT NO. 60T21		
	ILLINOIS FED. AID PROJECT			



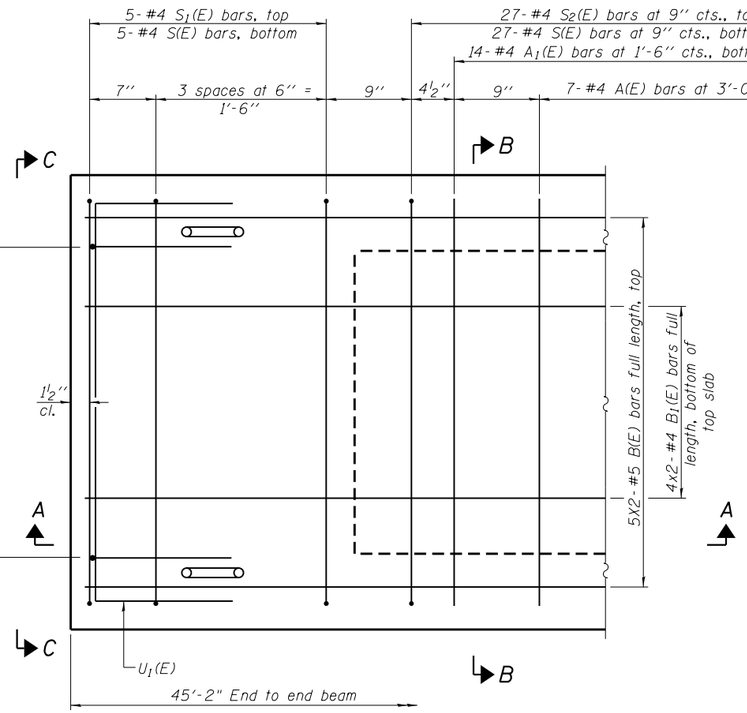
SECTION A-A



SECTION B-B
(Showing dimensions)

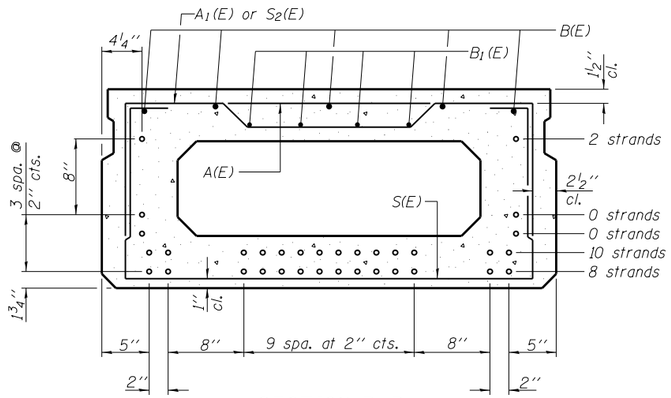


VIEW C-C



PLAN VIEW

Note: Spacing of S(E) and $S_2(E)$ bars may be adjusted up to 4" in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.



SECTION B-B
(Showing reinforcement and permissible strand locations)

Note: Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.

MINIMUM BAR LAP
#4 bar = 1'-11"
#5 bar = 2'-6"

BAR LIST
ONE BEAM ONLY
(For Information Only)

	Bar	No.	Size	Length	Shape
	A(E)	14	#4	3'-7"	—
	$A_1(E)$	28	#4	3'-10"	⌒
	B(E)	10	#5	23'-10"	—
	$B_1(E)$	8	#4	23'-6"	—
*	D(E)	16	#4	2'-9"	⌐ ⌙
	S(E)	64	#4	7'-5"	⌊ ⌋
	$S_1(E)$	10	#4	5'-11"	⌐ ⌐
	$S_2(E)$	54	#4	6'-2"	⌐ ⌐
	U(E)	12	#5	4'-0"	⊏
	$U_1(E)$	4	#4	6'-0"	⌐ ⌐

Note: See sheet SA-12 of SA-28 for additional details and Bill of Material.

*See sheets SA-9 & SA-10 for details and location of D(E) bar in exterior beams only.

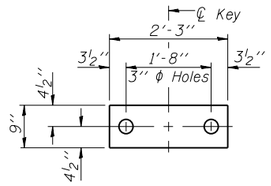
MILHOUSE

USER NAME = yayyoub	DESIGNED - LAS	REVISED -	
	CHECKED - DAZ	REVISED -	
PLOT SCALE = 0.1667 ' / in.	DRAWN - TCS	REVISED -	
PLOT DATE = 3/22/2019	CHECKED - LAS	REVISED -	

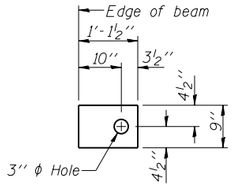
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

21" x 48" PPC DECK BEAM
STRUCTURE NO. 045-3069
SHEET NO. SA-11 OF SHEETS

F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	107N-4	KANE	288	168
		CONTRACT NO. 60T21		
	ILLINOIS FED. AID PROJECT			



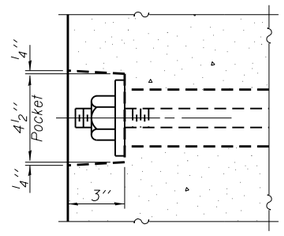
FABRIC BEARING PAD
(Interior)



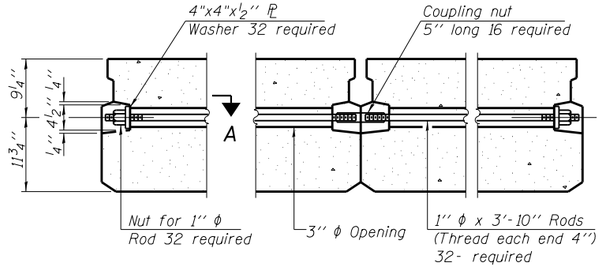
FABRIC BEARING PAD
(Exterior)

FIXED

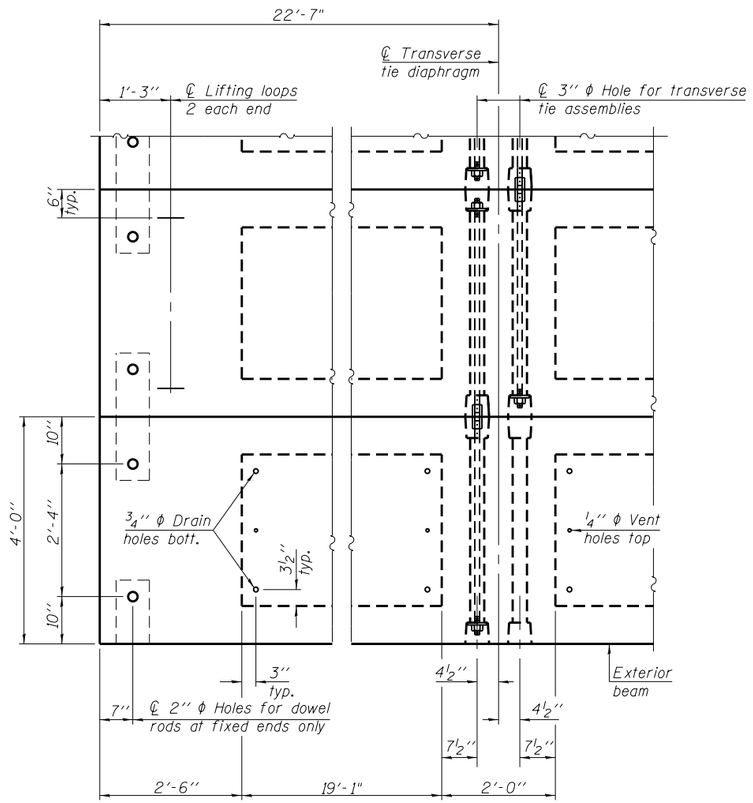
Notes:
All bearing pads shall be 1" thick.
Omit holes when using expansion bearings.
Expansion bearing pad shall be bonded to the substructure.



SECTION A-A

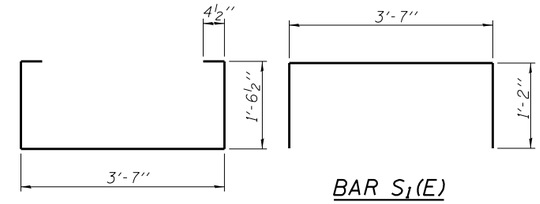


TYPICAL TRANSVERSE TIE ASSEMBLY



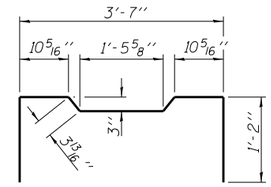
PLAN VIEW

Note: Connect beams in pairs with the transverse tie configuration shown.

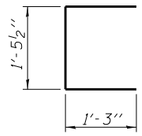


BAR S(E)

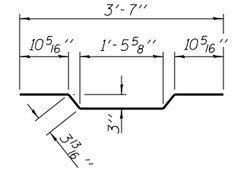
BAR S_1(E)



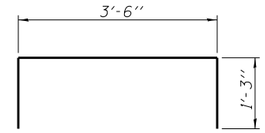
BAR S_2(E)



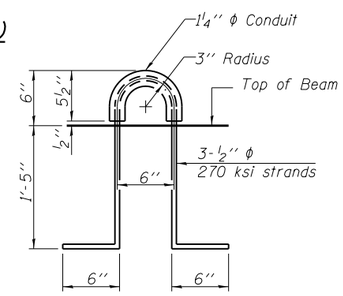
BAR U(E)



BAR A_1(E)



BAR U_1(E)



LIFTING LOOP DETAIL

NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be ½" and the nominal cross-sectional area shall be 0.153 sq. in.

The 1" ϕ rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place.

Two ⅛" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.

A minimum 2½" ϕ lifting pin shall be used to engage the lifting loops during handling.

Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.

Compressive strength of prestressed concrete, f'c, shall be 6000 psi.

Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (21" depth)	Sq. Ft.	3072

PD-2148-0D 1-28-16

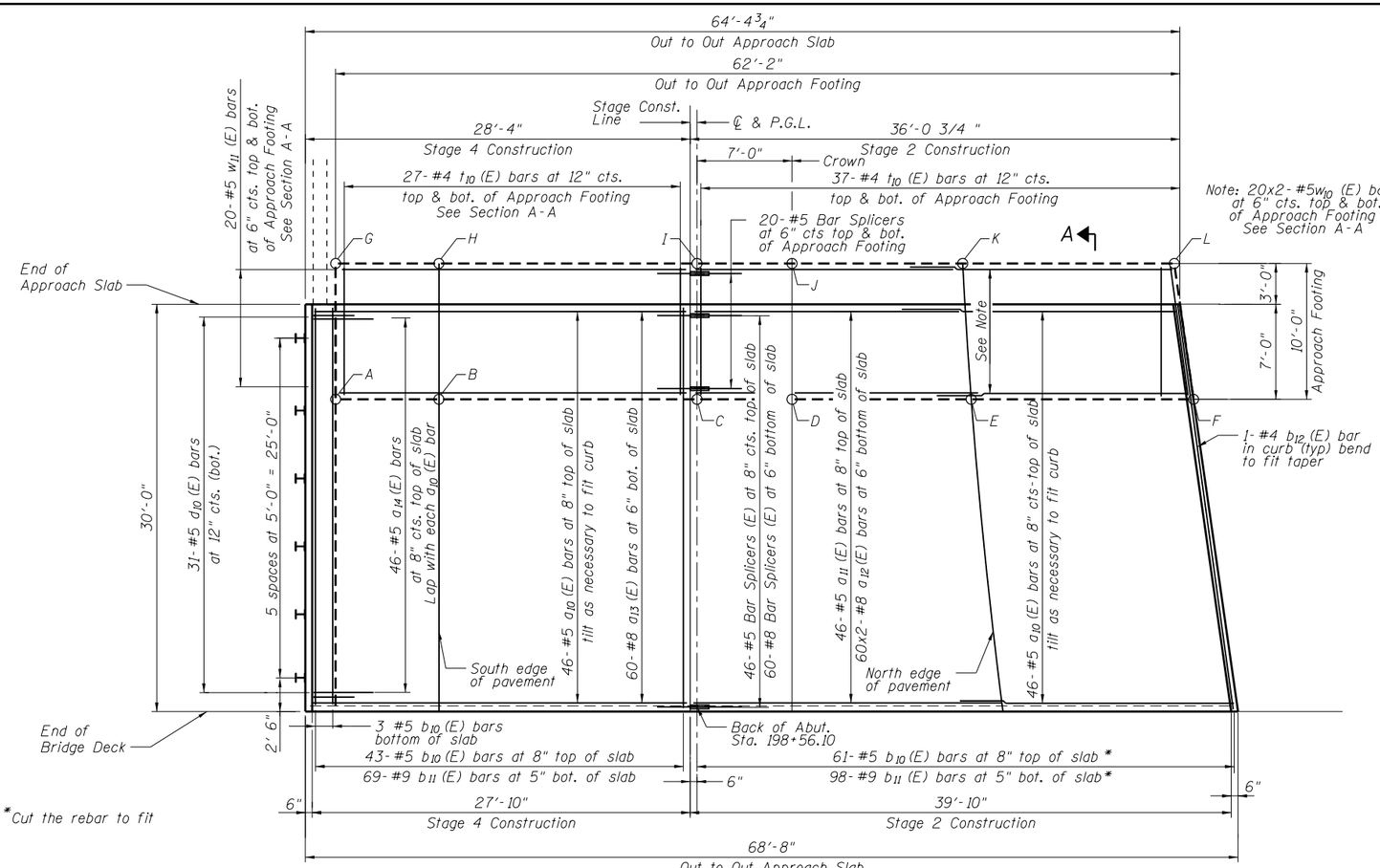
MILHOUSE	USER NAME = ygyoub	DESIGNED - LAS	REVISED -
		CHECKED - DAZ	REVISED -
	PLOT SCALE = 0.1667 ' / in.	DRAWN - TCS	REVISED -
	PLOT DATE = 3/22/2019	CHECKED - LAS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

21" x 48" PPC DECK BEAM DETAILS
STRUCTURE NO. 045-3069
SHEET NO. SA-12 OF SA-28 SHEETS

F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	107N-4	KANE	288	169
		CONTRACT NO. 60T21		
	ILLINOIS FED. AID PROJECT			

FILE NAME = P:\2015\0558 IDOT Dist IL Route 47 at Main S of Elburn (PTB 171-041\04-CADD\01 CADD Sheets\D160T21-SA-12.21x48 P.P.C. Deck Beam Details.dgn



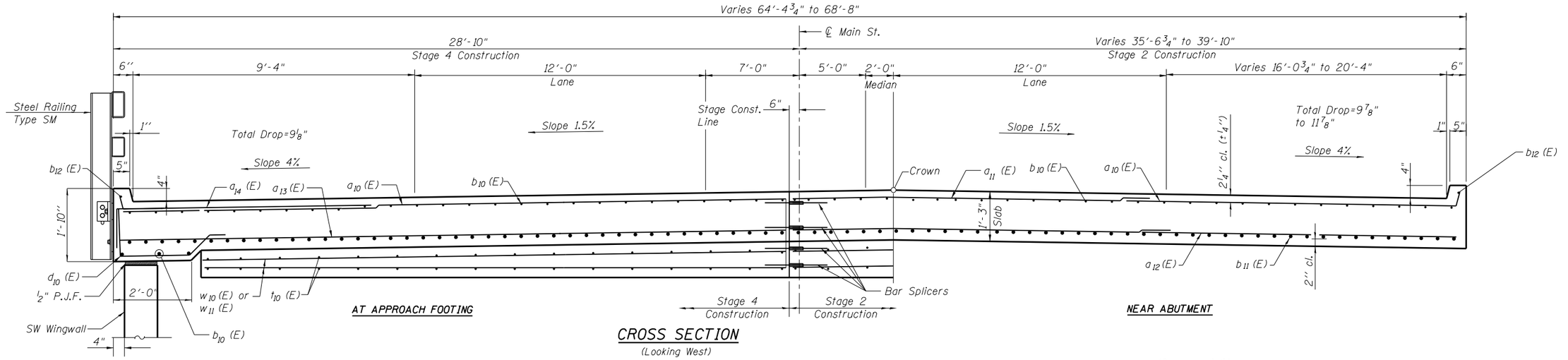
WEST APPROACH PLAN

MINIMUM LAP

#5- 3'-7"
#8- 4'-9"

TOP AND BOTTOM ELEVATIONS FOR WEST APPROACH FOOTING

Point	Top	Bottom
A	731.52	730.69
B	731.83	730.99
C	732.11	731.28
D	732.22	731.38
E	732.02	731.18
F	731.36	730.53
G	731.57	730.74
H	731.88	731.04
I	732.16	731.33
J	732.27	731.43
K	732.08	731.24
L	731.46	730.62



CROSS SECTION

(Looking West)

FILE NAME = P:\2015\0558 IDOT Dist IL Route 47 at Main S of Elburn (PTB 171-041)\04-CADD\01 CADD Sheets\D160721-SA-13 Bridge West Approach Slab.dgn

MILHOUSE	USER NAME = yayoub	DESIGNED - LAS	REVISED -
		CHECKED - DAZ	REVISED -
	PLOT SCALE = 10.6667 ' / in.	DRAWN - TCS	REVISED -
	PLOT DATE = 3/22/2019	CHECKED - LAS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE WEST APPROACH SLAB
STRUCTURE NO. 045-3069
SHEET NO. SA-13 OF SA-28 SHEETS

F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	107N-4	KANE	288	170
		CONTRACT NO. 60T21		
	ILLINOIS FED. AID PROJECT			

Notes:

The joint opening shall be adjusted for temperature per Article 520.04 of the Standard Specifications. However, since this detail is for jointless structures, the length of bridge used to calculate the adjustment shall be equal to half the total bridge length plus the length of the bridge approach pavement.

Approach slab shall be paid for as Concrete Superstructure (Approach Slab).

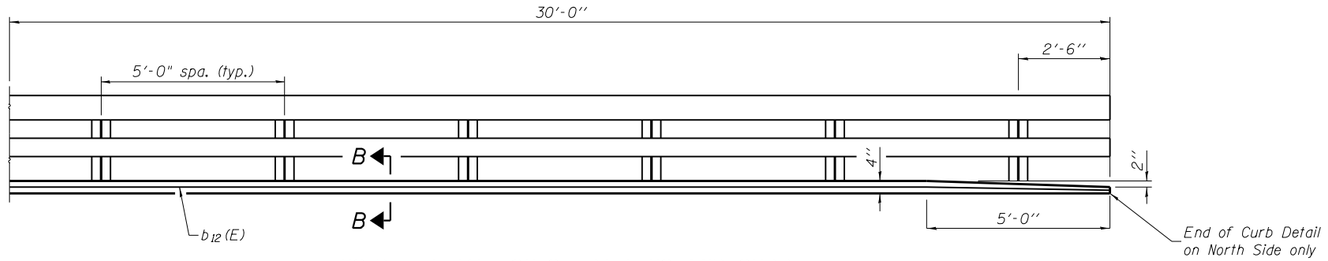
Approach footing concrete shall be paid for as Concrete Structures.

The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.

Cost of excavation for approach footing included with Concrete Structures.

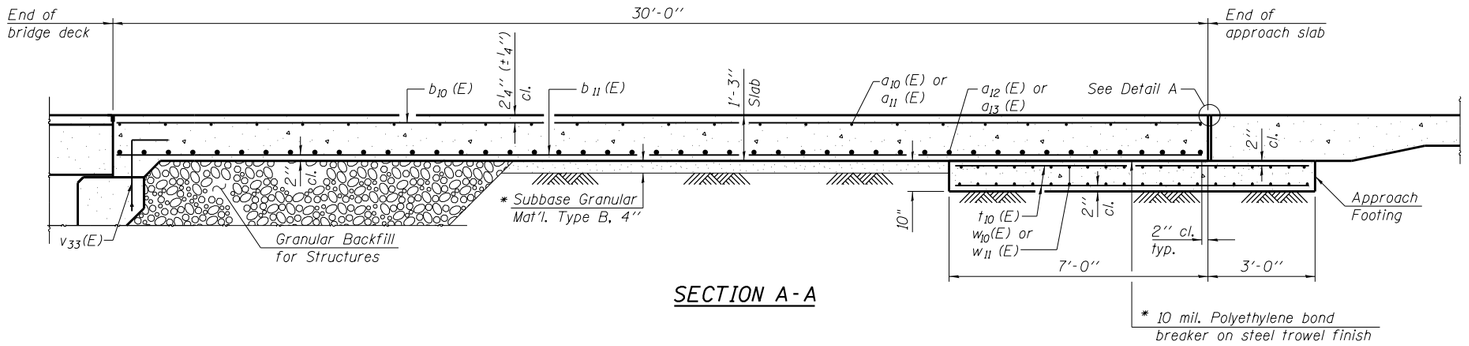
For Granular Backfill for Structures and drainage treatment details, see sheet SA-2 of SA-28.

For railing details, see sheet SA-17 of SA-28.

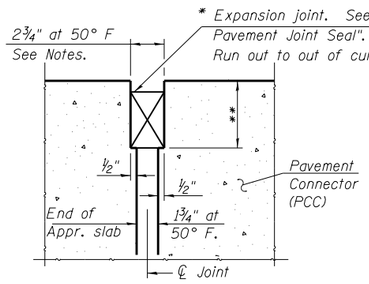


INSIDE ELEVATION OF RAILING AND CURB

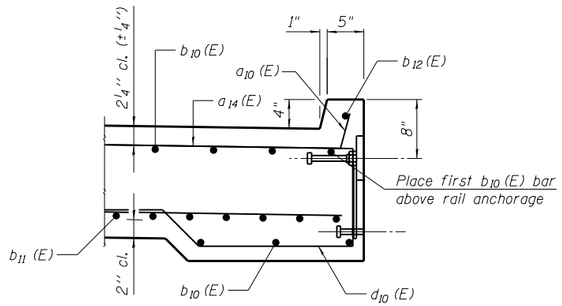
(Railing on South Side only)



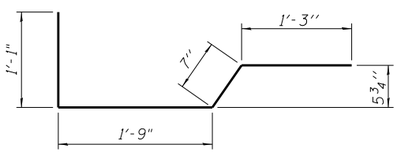
SECTION A-A



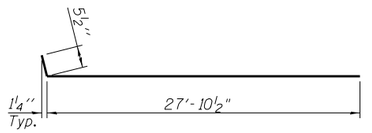
DETAIL A



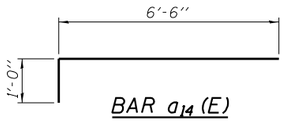
SECTION B-B



BAR d_{10} (E)



BAR a_{10} (E)



BAR a_{14} (E)

* Cost included with Concrete Superstructure (Approach Slab).

** Per manufacturer recommendations

BILL OF MATERIAL

WEST APPROACH

Bar	No.	Size	Length	Shape
a_{10} (E)	92	#5	28'-4"	
a_{11} (E)	46	#5	15'-9"	
a_{12} (E)	120	#8	22'-5"	
a_{13} (E)	60	#8	28'-0"	
a_{14} (E)	46	#5	7'-6"	
b_{10} (E)	107	#5	29'-8"	
b_{11} (E)	167	#9	29'-8"	
b_{12} (E)	2	#4	29'-8"	
d_{10} (E)	31	#5	4'-8"	
t_{10} (E)	128	#4	9'-8"	
w_{10} (E)	80	#5	19'-8"	
w_{11} (E)	40	#5	25'-9"	
Concrete Superstructure (Approach Slab)		Cu. Yd.	93.3	
Concrete Structures		Cu. Yd.	19.2	
Reinforcement Bars, Epoxy Coated		Pound	39,390	

BA-CIP-R34C-0 8-11-2017

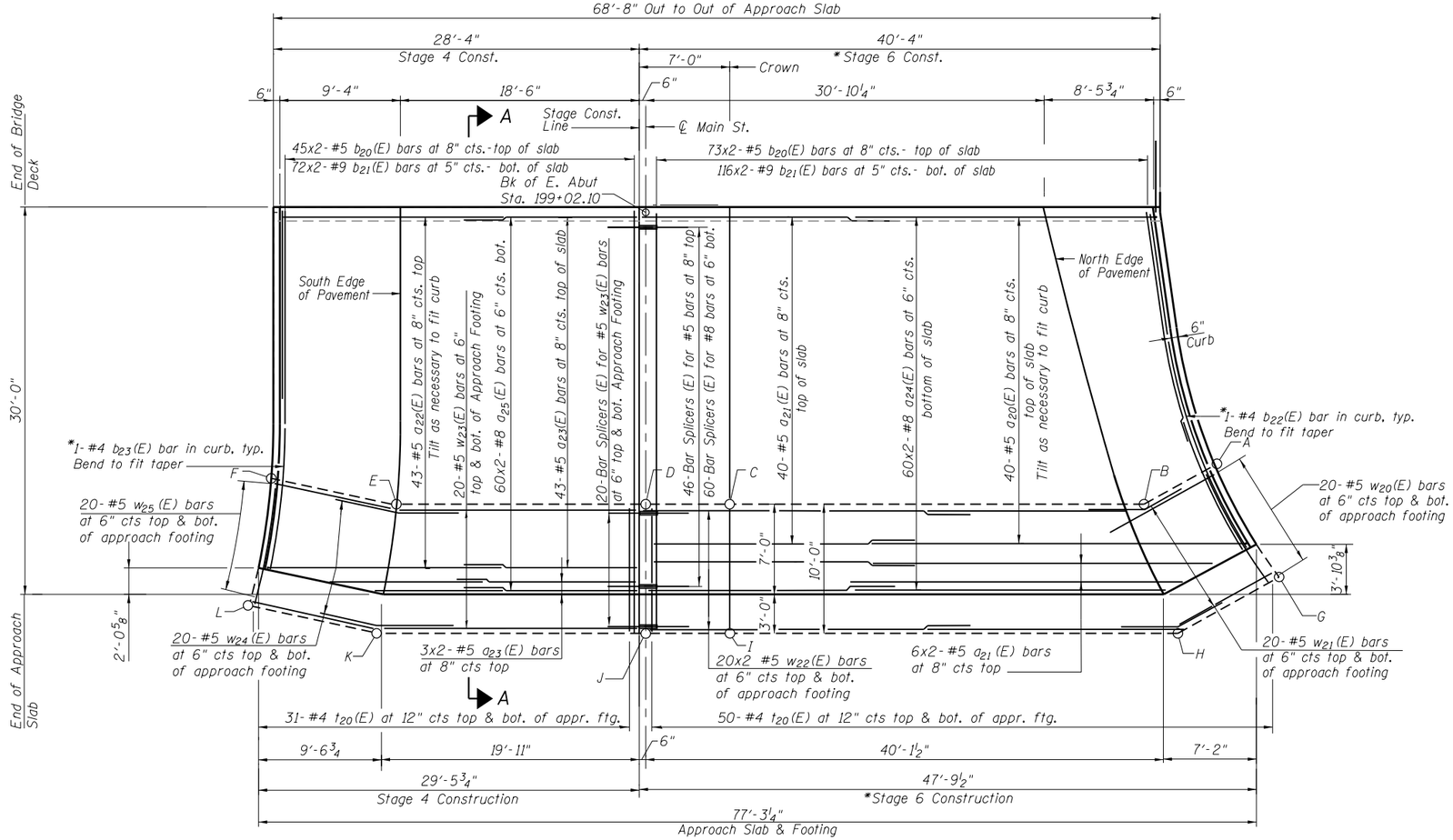
HILLHOUSE	USER NAME = yeyyoub	DESIGNED - LAS	REVISED -
		CHECKED - DAZ	REVISED -
	PLOT SCALE = 10.6667 ' / in.	DRAWN - TCS	REVISED -
	PLOT DATE = 3/22/2019	CHECKED - LAS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE WEST APPROACH SLAB DETAILS
STRUCTURE NO. 045-3069
SHEET NO. SA-14 OF SA-28 SHEETS

F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	107N-4	KANE	288	171
		CONTRACT NO. 60T21		
	ILLINOIS FED. AID PROJECT			

FILE NAME = P:\2015\0958 IDOT Dist IL Route 47 at Main S of Elburn (PTB 171-041\04-CADD\01 CADD Sheets\D160721-Sa-14_West Bridge Approach Slab Details 11.dgn



EAST APPROACH PLAN

*Bars to be furnished straight and sprung into place

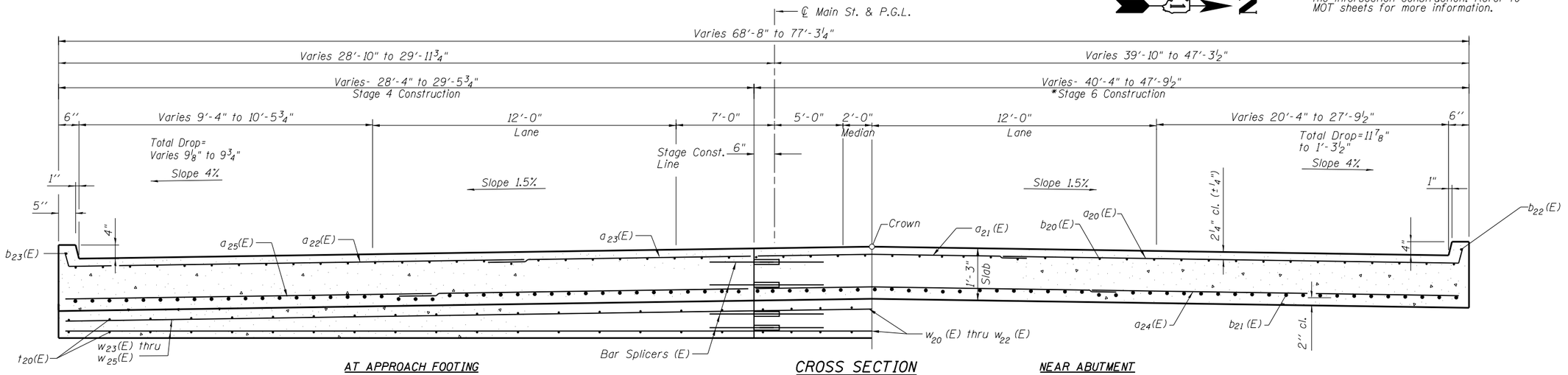
*The north side of east approach will be constructed in Stage 6 along with the intersection construction. Refer to MOT sheets for more information.

MINIMUM LAP

#5- 3'-7"
#8- 4'-9"
#9- 9'-2"

TOP AND BOTTOM ELEVATIONS FOR EAST APPROACH FOOTING

Point	Top	Bottom
A	731.27	730.44
B	731.49	730.66
C	731.97	731.13
D	731.86	731.03
E	731.57	730.74
F	731.18	730.35
G	731.15	730.31
H	731.46	730.63
I	731.98	731.14
J	731.87	731.04
K	731.56	730.72
L	731.16	730.33



AT APPROACH FOOTING

CROSS SECTION (Looking West)

NEAR ABUTMENT

(Sheet 1 of 2)

USER NAME = yeyyoub	DESIGNED - LAS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	CHECKED - DAZ	REVISED -	
PLOT SCALE = 10.6667 ' / in.	DRAWN - TCS	REVISED -	
PLOT DATE = 3/22/2019	CHECKED - LAS	REVISED -	

BRIDGE EAST APPROACH SLAB
STRUCTURE NO. 045-3069
SHEET NO. SA-15 OF SA-28 SHEETS

F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	107N-4	KANE	288	172
		CONTRACT NO. 60T21		
	ILLINOIS FED. AID PROJECT			

FILE NAME = P:\2015\0558 IDOT Dist 1L Route 47 at Main S of Elburn (PTB 171-041)\04-CADD\01 CADD Sheets\D160721-SA-15-East Bridge Approach Slab.dgn

Notes:

The joint opening shall be adjusted for temperature per Article 520.04 of the Standard Specifications. However, since this detail is for jointless structures, the length of bridge used to calculate the adjustment shall be equal to half the total bridge length plus the length of the bridge approach pavement.

Approach slab shall be paid for as Concrete Superstructure (Approach Slab).

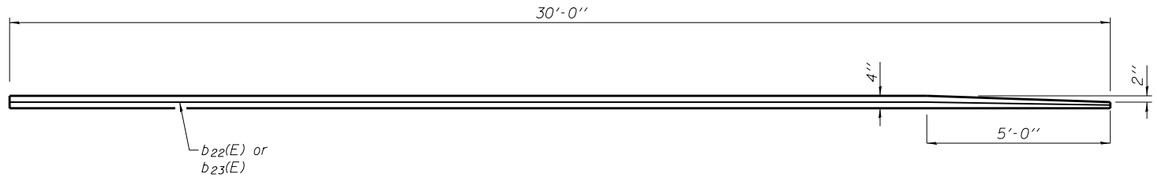
Approach footing concrete shall be paid for as Concrete Structures.

The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.

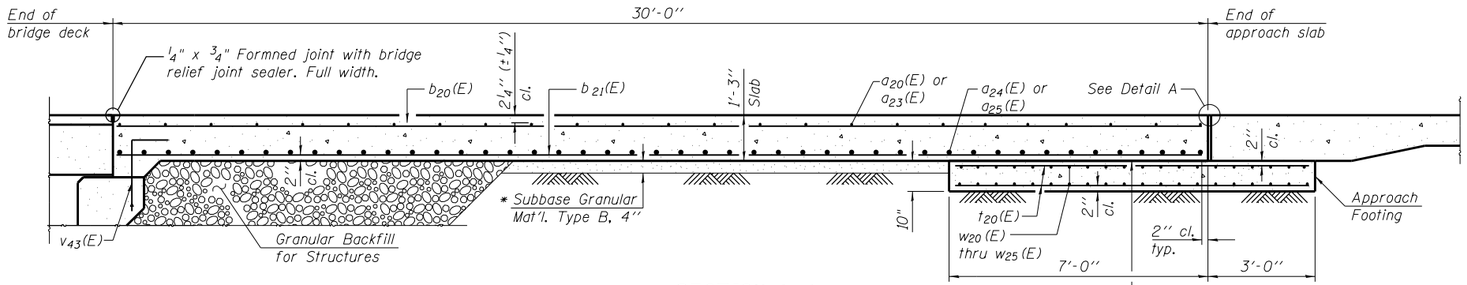
Cost of excavation for approach footing included with Concrete Structures.

For Granular Backfill for Structures and drainage treatment details, see sheet SA-2 of SA-28.

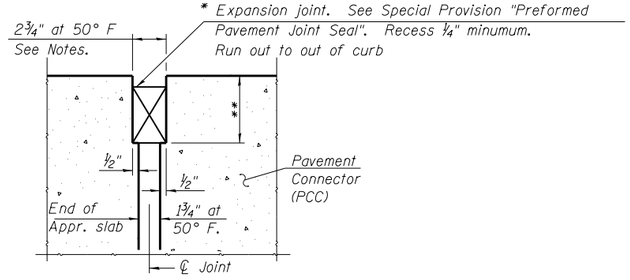
For railing details, see sheet SA-17 of SA-28.



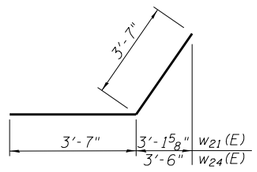
INSIDE ELEVATION OF CURB



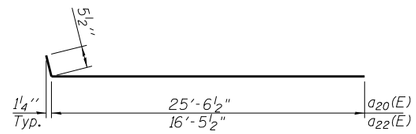
SECTION A-A



DETAIL A



BAR w21(E) & w24(E)



BAR a20(E) & a22(E)

* Cost included with Concrete Superstructure (Approach Slab).

** Per manufacturer recommendations

BILL OF MATERIAL

EAST APPROACH

Bar	No.	Size	Length	Shape
a20(E)	40	#5	26'-0"	
a21(E)	52	#5	25'-7"	
a22(E)	43	#5	16'-11"	
a23(E)	49	#5	16'-5"	
a24(E)	120	#8	26'-2"	
a25(E)	120	#8	17'-0"	
b20(E)	236	#5	16'-8"	
b21(E)	376	#9	19'-5"	
b22(E)	1	#4	27'-1"	
b23(E)	1	#4	27'-8"	
t20(E)	162	#4	9'-8"	
w20(E)	40	#5	8'-8"	
w21(E)	40	#5	7'-2"	
w22(E)	80	#5	22'-6"	
w23(E)	40	#5	20'-0"	
w24(E)	40	#5	7'-2"	
w25(E)	40	#5	9'-10"	
Concrete Superstructure (Approach Slab)		Cu. Yd.	101.7	
Concrete Structures		Cu. Yd.	24.2	
Reinforcement Bars, Epoxy Coated		Pound	51,990	

BA-CIP-R34C-0 8-11-2017

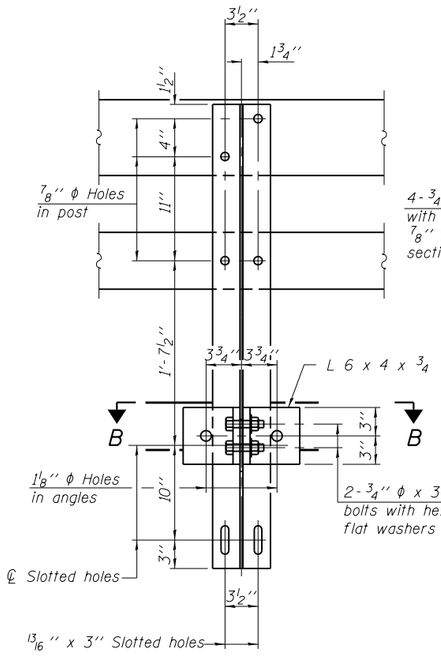
HILHOUSE	USER NAME = yayyoub	DESIGNED - LAS	REVISED -
		CHECKED - DAZ	REVISED -
	PLOT SCALE = 10.6667 ' / in.	DRAWN - TCS	REVISED -
	PLOT DATE = 3/22/2019	CHECKED - LAS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

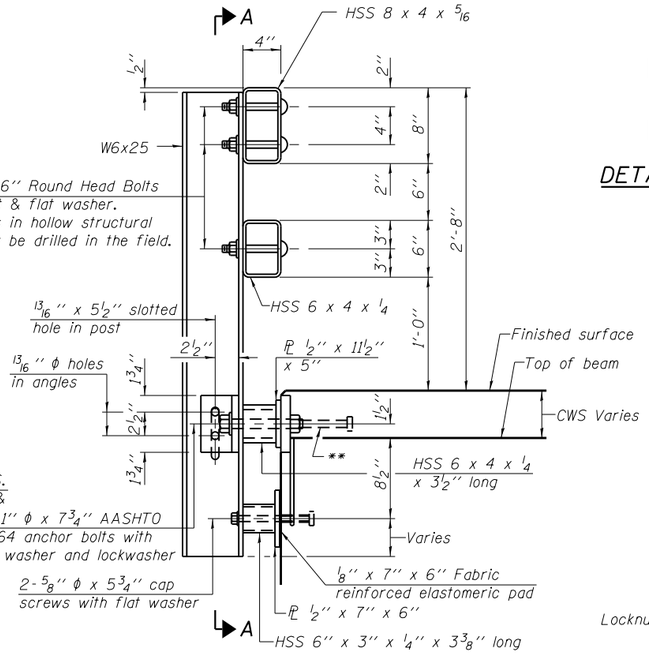
BRIDGE EAST APPROACH SLAB DETAILS
STRUCTURE NO. 045-3069
SHEET NO.SA-16 OF SA-28 SHEETS

F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	107N-4	KANE	288	173
		CONTRACT NO. 60T21		
	ILLINOIS FED. AID PROJECT			

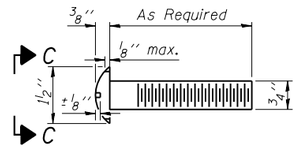
FILE NAME = P:\2015\0958 IDOT Dist IL Route 47 at Main S of Elburn (PTB 171-041\04-CADD\01 CADD Sheets\D160721-SA-16_East Bridge Approach Slab Details.dgn



SECTION A-A

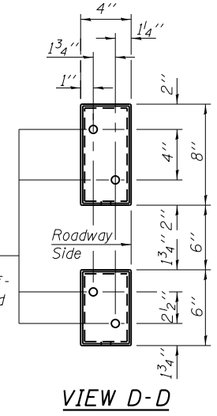


SECTION AT RAIL POST

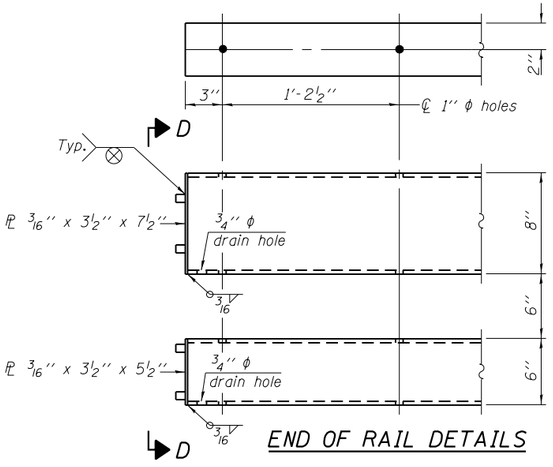


DETAIL OF 3/4" ϕ ROUND HEAD BOLT

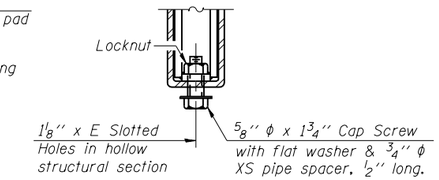
VIEW C-C



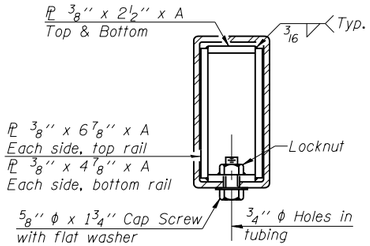
VIEW D-D



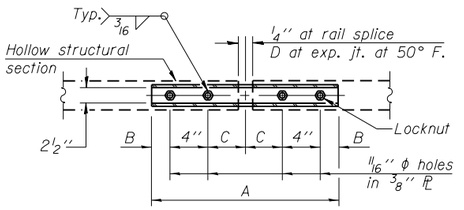
END OF RAIL DETAILS



RAIL SPLICE CONNECTION AT EXPANSION JT.

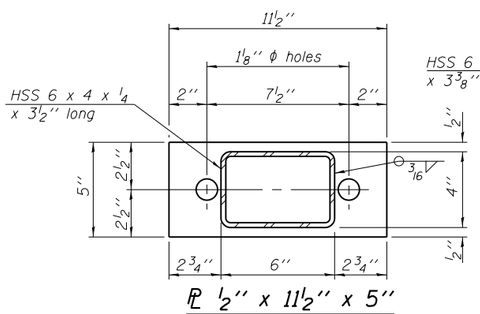


SECTION AT RAIL SPLICE

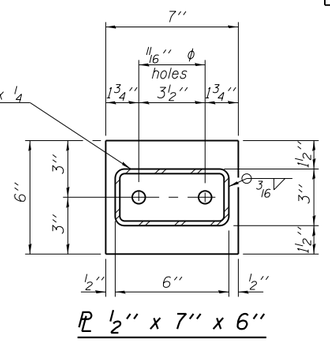


PLAN-BOTT. SPLICE PL TYPICAL

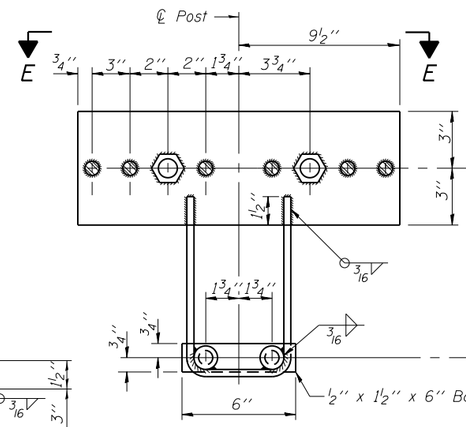
SECTION B-B



PL 1/2" x 11 1/2" x 5"

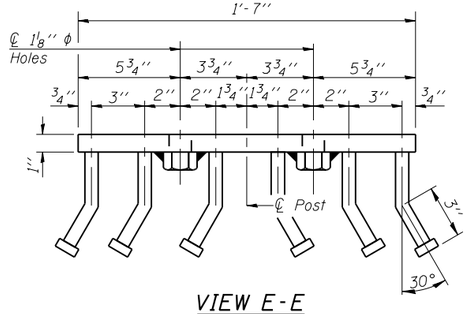


PL 1/2" x 7" x 6"



ANCHOR DEVICE

*Threaded areas shall be plugged or blocked off during casting of beam. Galvanized after fabrication.



VIEW E-E

SPLICE DIMENSIONS

T	D	A	B	C	E
≤ 4"	2 1/2"	1'-8"	2"	4"	2 1/2"
> 4" ≤ 6 1/2"	3 3/4"	2'-0"	2 1/2"	5 1/2"	3 1/2"
> 6 1/2" ≤ 9"	5"	2'-4"	3 1/2"	6 1/2"	9"
> 9" ≤ 13"	7"	2'-10"	4 1/2"	8 1/2"	11"
Rail Splice	1/4"	1'-8"	2"	4"	———

T = Total movement at expansion joint as shown on the design plans.

Notes:

For multi-span bridges, sufficient 1/4" x 6" x 1'-2" galvanized steel shims shall be provided to align rail between adjacent spans. Cost included with Steel Railing, Type SM.

Steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.

** The studs of the anchor devices shall be placed below the top reinforcement bars and the outermost longitudinal reinforcement bar shall be placed directly above the studs of the rail post anchor device.

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type SM	Foot	120

R-34CWS 8-11-2017 (6'-3" Maximum Post Spacing) (5" minimum to 7 1/8" maximum CWS thickness)

FILE NAME = P:\2015\0958 IDOT Dist IL Route 47 at Main S of Elburn (PTB 171-014)\04-CADD\01 CADD Sheets\D160721-Sa-17 Steel Railing Type SM.dgn

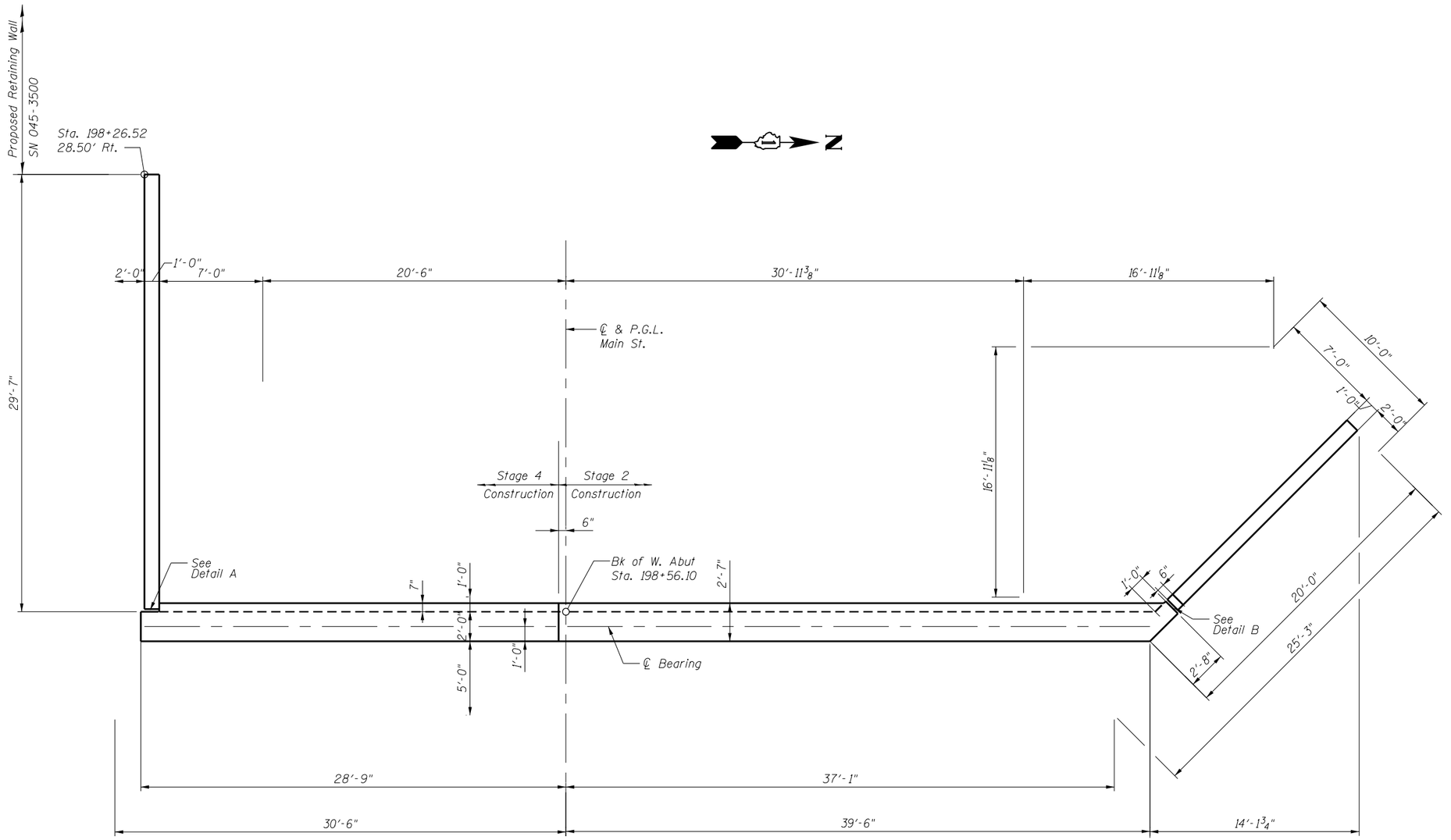
HILLHOUSE

USER NAME = yeyyoub	DESIGNED - LAS	REVISED -
	CHECKED - DAZ	REVISED -
PLOT SCALE = 0.1667 ' / in.	DRAWN - TCS	REVISED -
PLOT DATE = 3/22/2019	CHECKED - LAS	REVISED -

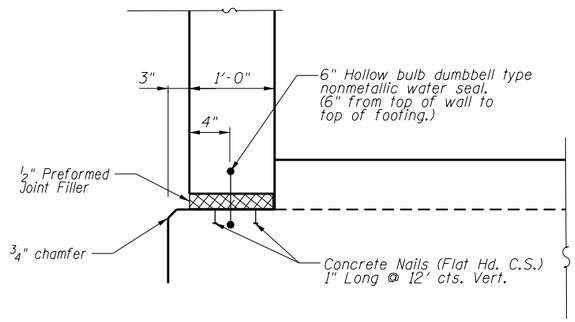
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STEEL RAILING, TYPE SM WITH CONCRETE WEARING SURFACE
STRUCTURE NO. 045-3069
SHEET NO. SA-17 OF SA-28 SHEETS

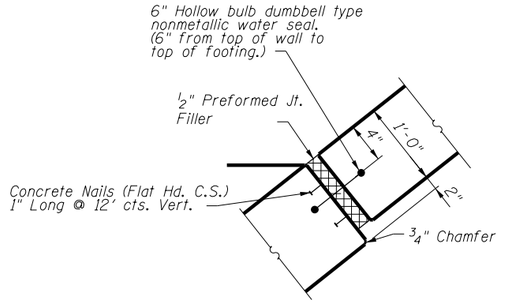
F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	107N-4	KANE	288	174
		CONTRACT NO. 60T21		
	ILLINOIS FED. AID PROJECT			



WEST ABUTMENT PLAN



DETAIL A



DETAIL B

FILE NAME = P:\2015\02558 IDOT Dist IL Route 47 at Main S of Elburn (PTB 171-041)\04-CADD\01 CADD Sheets\D1602721-SA-18 West Abutment Plan.dgn

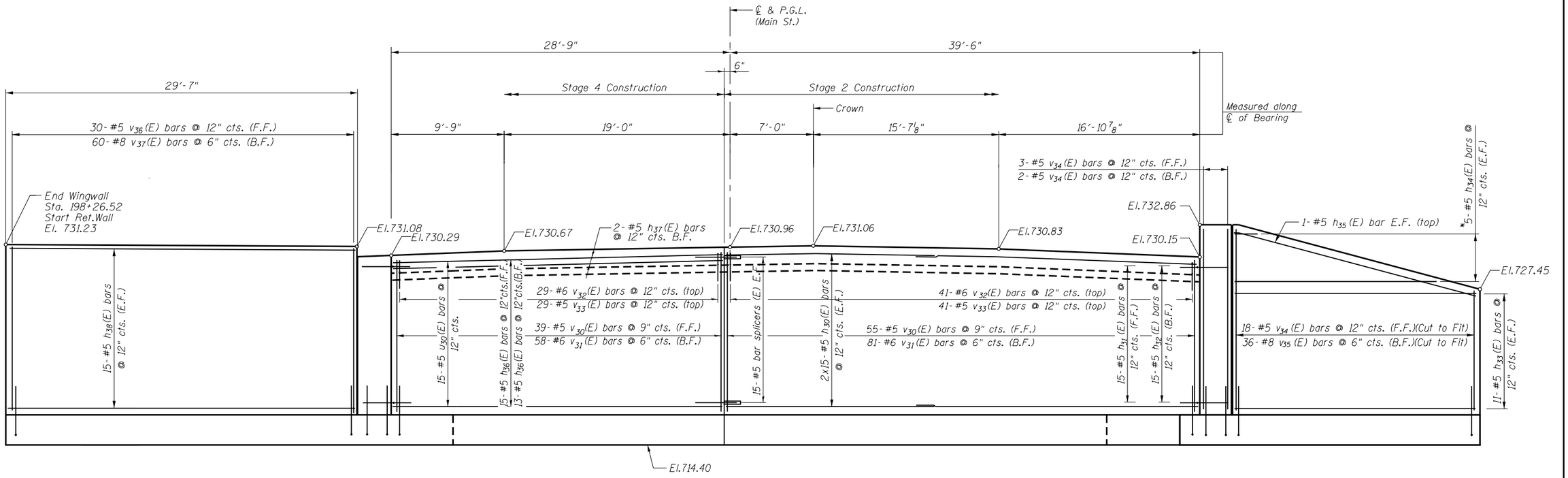
MILHOUSE

USER NAME = yayyoub	DESIGNED - LAS	REVISED -	
	CHECKED - DAZ	REVISED -	
PLOT SCALE = 8.0000 ' / in.	DRAWN - TCS	REVISED -	
PLOT DATE = 3/22/2019	CHECKED - LAS	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WEST ABUTMENT PLAN
STRUCTURE NO. 045-3069
SHEET NO. SA-18 OF SA-28 SHEETS

F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	107N-4	KANE	288	175
		CONTRACT NO. 60T21		
	ILLINOIS FED. AID PROJECT			



WEST ABUTMENT ELEVATION
(Looking West)

Notes

* Signifies cut bar. Order per length on Bill of Material. Cut as shown in Cutting Diaghram and use half of bars in each face.

See Sheet SA-24 for Section thru Abutment & Wingwall Details and Bill of Material.

Bars indicated thus 2x15-#4 etc. indicates 2 lengths per line of bars with 15 lines of bars.

MINIMUM BAR LAP

#5	3'-7"
#6	3'-10"
#8	5'-1"

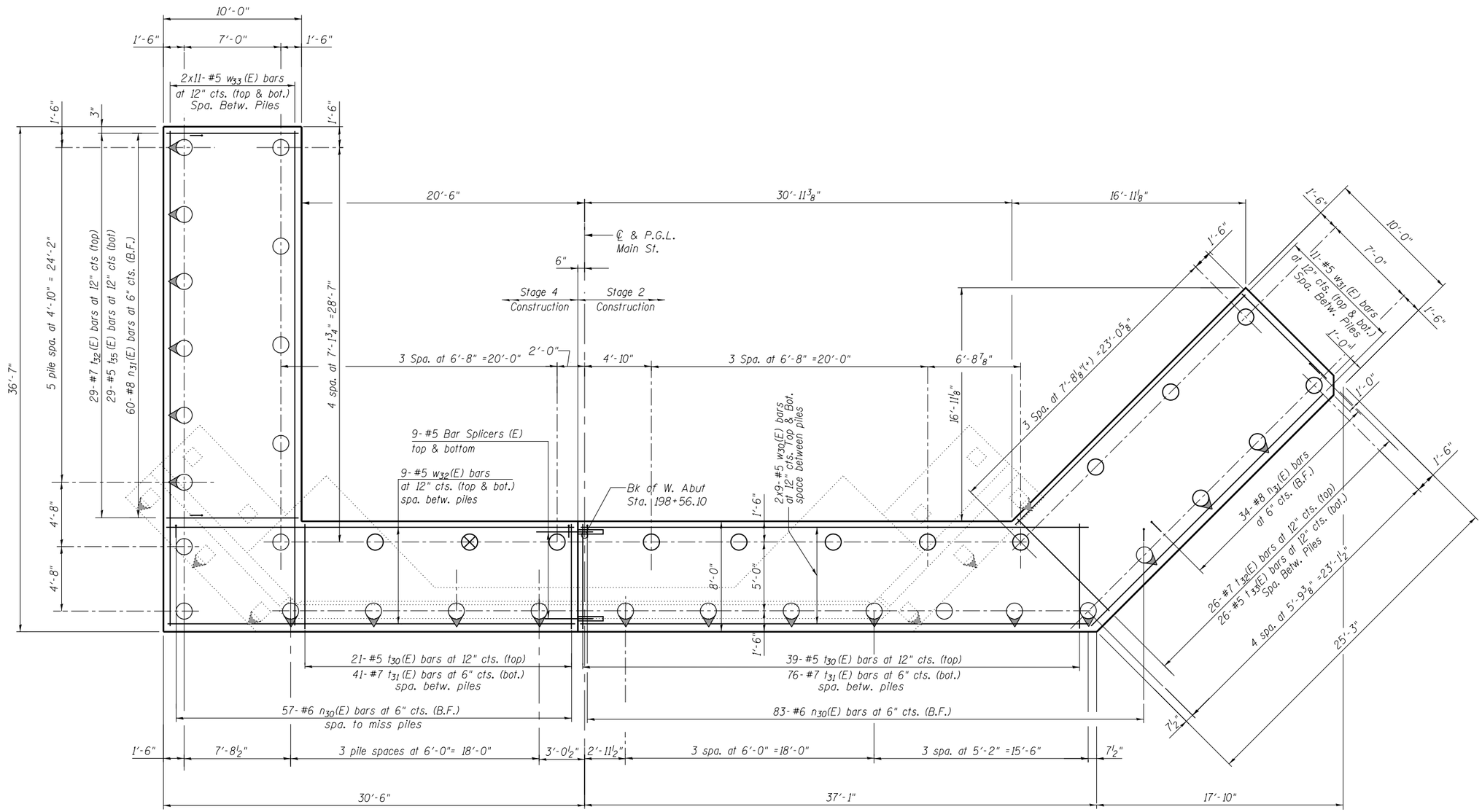
FILE NAME = P:\2015\02558 IDOT Dist IL Route 47 at Main S of Elburn IPTB 171-041\04-CADD\01 CADD Sheets\D160721-SA-19 West Abutment Elev.dgn

MILHOUSE	USER NAME = yggoub	DESIGNED - LAS	REVISED -
		CHECKED - DAZ	REVISED -
	PLOT SCALE = 8.6667 ' / in.	DRAWN - TCS	REVISED -
	PLOT DATE = 3/22/2019	CHECKED - LAS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WEST ABUTMENT ELEVATION
STRUCTURE NO. 045-3069
SHEET NO. SA-19 OF SA-28 SHEETS

F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	107N-4	KANE	288	176
		CONTRACT NO. 60T21		
	ILLINOIS	FED. AID PROJECT		



WEST ABUTMENT PILE LAYOUT

Test Pile

Straight Pile

Battered Pile

Existing Pile

Existing Pile Battered

Type: Metal Shell Piles 14"x.3125" with Pile Shoes
Nominal Required Bearing: 388k
Factored Resistance Available: 200k
Est. Length: 22'
No. Production Piles: 38
No. Test Piles: 1

MINIMUM BAR LAP

#5	3'-7"
#6	3'-10"
#8	5'-1"

Notes

See Sheet SA-24 for Sections Details and Bill of Material.

Bars indicated thus 3x15-#4 etc. indicates 3 lengths per line of bars with 15 lines of bars.

If necessary proposed pile locations to be adjusted in field to provide 1' clear distance to existing piles.

FILE NAME = P:\2015\0558 IDOT Dist IL Route 47 at Main S of Elburn (PTB 171-041)\04-CADD\01 CADD Sheets\D160721-SA-20 West Abutment Pile Layout.dgn

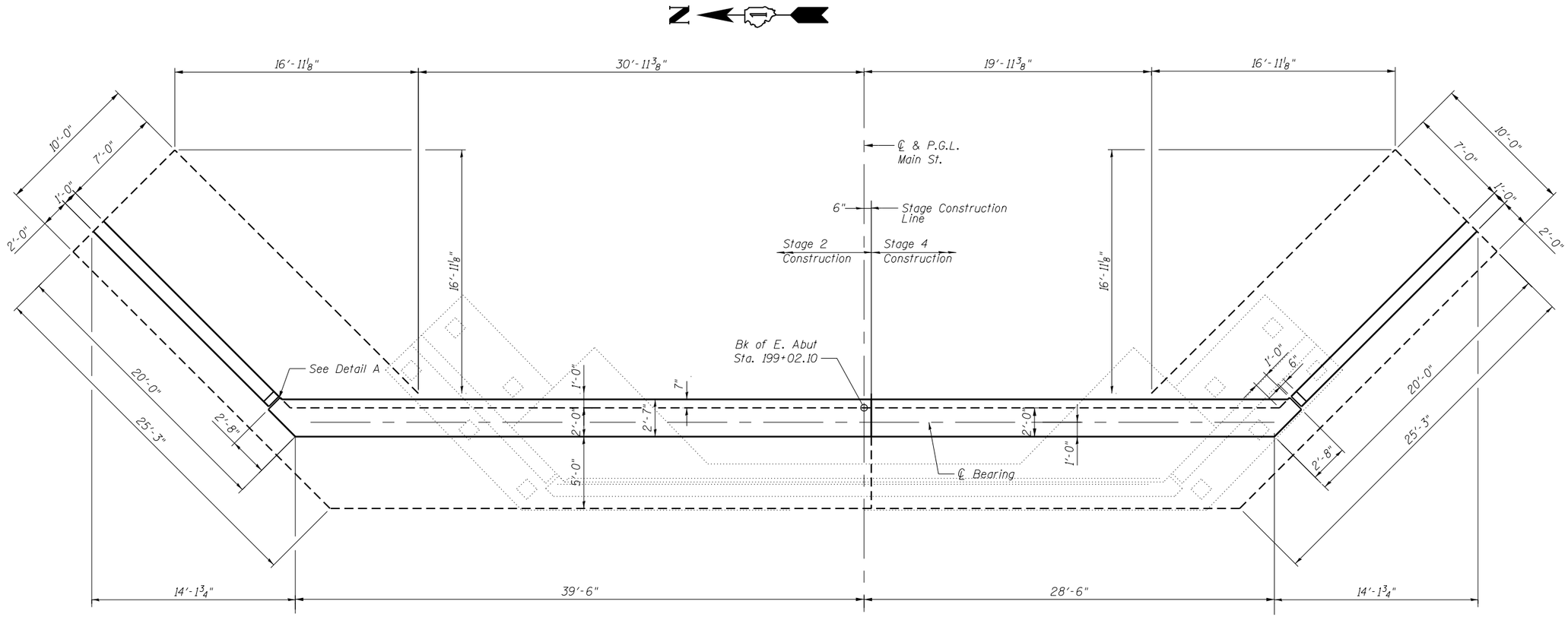
MILHOUSE

USER NAME = yayyoub	DESIGNED - LAS	REVISED -
	CHECKED - DAZ	REVISED -
PLOT SCALE = 8.0000 ' / in.	DRAWN - TCS	REVISED -
PLOT DATE = 3/22/2019	CHECKED - LAS	REVISED -

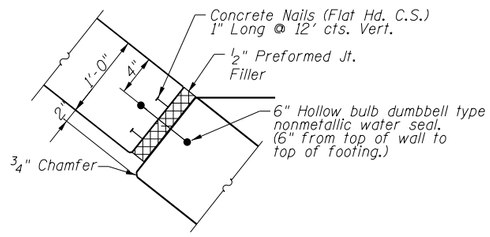
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WEST ABUTMENT PILE LAYOUT
STRUCTURE NO. 045-3069
SHEET NO. SA-20 OF SA-28 SHEETS

F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	107N-4	KANE	288	177
		CONTRACT NO. 60T21		
	ILLINOIS FED. AID PROJECT			



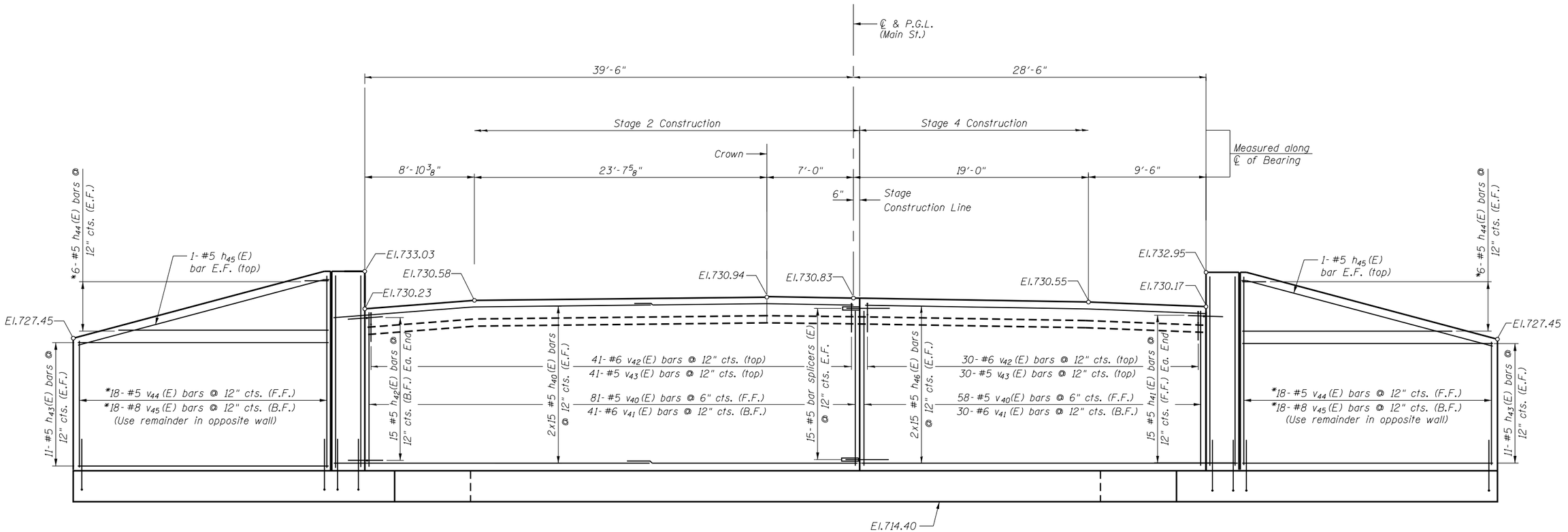
EAST ABUTMENT PLAN



DETAIL A

FILE NAME = P:\2015\0558 IDOT Dist IL Route 47 at Main S of Elburn (PTB 171-041)\04-CADD\01 CADD Sheets\D160721-SA-21 East Abutment Plan.dgn

HILLHOUSE	USER NAME = yayyoub	DESIGNED - LAS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EAST ABUTMENT PLAN STRUCTURE NO. 045-3069	F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED - DAZ	REVISED -			326	107N-4	KANE	288	178
	PLOT SCALE = 8.0000 ' / in.	DRAWN - TCS	REVISED -						CONTRACT NO. 60T21	
	PLOT DATE = 3/22/2019	CHECKED - LAS	REVISED -		SHEET NO. SA-21 OF SA-28 SHEETS			ILLINOIS	FED. AID PROJECT	



EAST ABUTMENT ELEVATION

(Looking East)

Notes

* Signifies cut bar. Order per length on Bill of Material. Cut as shown in Cutting Diaghram.

See Sheet SA-24 for Section thru Abutment & Wingwall Details and Bill of Material.

Bars indicated thus 3x15-#4 etc. indicates 2 lengths per line of bars with 15 lines of bars.

MINIMUM BAR LAP

#5	3'-7"
#6	3'-10"
#8	5'-1"

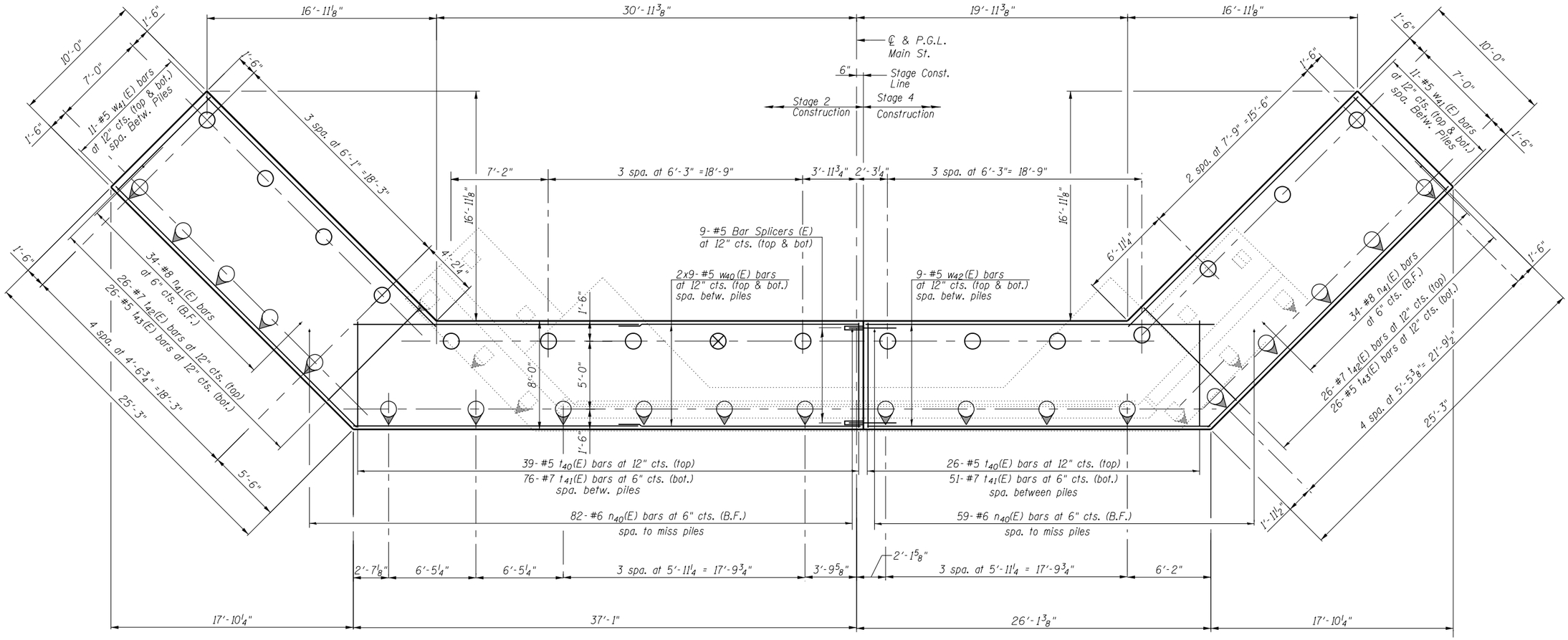
FILE NAME = P:\2015\0958 IDOT Dist IL Route 47 at Main S of Elburn (PTB 171-041\04-CADD\01 CADD Sheets\0160721-SA-22 East Abutment Elevation.dgn

HILHOUSE	USER NAME = yayoub	DESIGNED - LAS	REVISED -
		CHECKED - DAZ	REVISED -
	PLOT SCALE = 8.3333 ' / in.	DRAWN - TCS	REVISED -
	PLOT DATE = 3/22/2019	CHECKED - LAS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EAST ABUTMENT ELEVATION
STRUCTURE NO. 045-3069
SHEET NO. SA-22 OF SA-28 SHEETS

F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	107N-4	KANE	288	179
		CONTRACT NO. 60T21		
	ILLINOIS FED. AID PROJECT			



EAST ABUTMENT FOOTING LAYOUT

PILE DATA

Type: Metal Shell Piles 14"x.3125" with Pile Shoes
Nominal Required Bearing: 365k
Factored Resistance Available: 200k
Est. Length: 27'
No. Production Piles: 35
No. Test Piles: 1

LEGEND

- Test Pile
- Straight Pile
- Battered Pile
- Existing Pile
- Existing Battered Pile

Notes

Bars indicated thus 3x9-#5 etc. indicates
3 lengths per line of bars with 9 lines of bars.

If necessary, proposed pile location to be adjusted
in field to provide 1' clear distance to existing piles

MINIMUM BAR LAP

#5 3'-7"
#6 3'-10"
#8 5'-1"

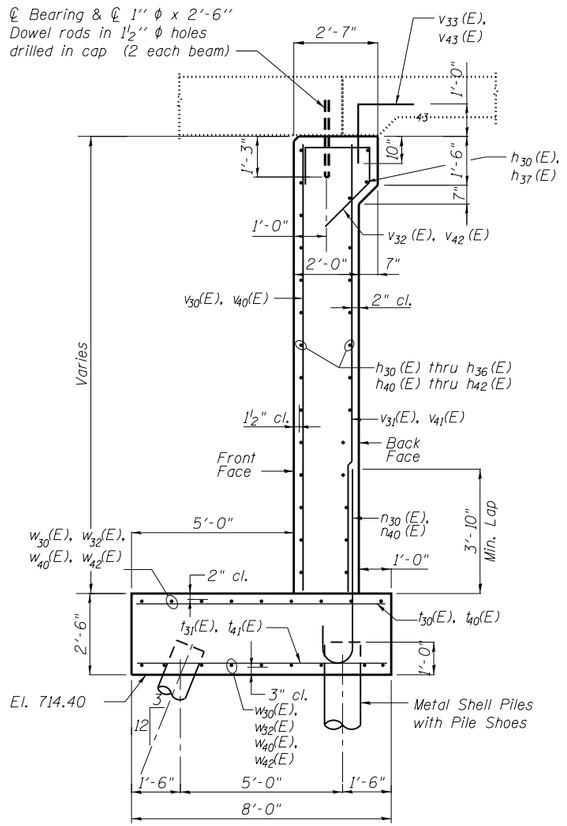
FILE NAME = P:\2015\0958 IDOT Dist IL Route 47 at Main S of Elburn (PTB 171-041)\04-CADD\01 CADD Sheets\10160721-Sa-23.East Abutment Pile Layout.dgn

HILHOUSE	USER NAME = yayoub	DESIGNED - LAS	REVISED -
		CHECKED - DAZ	REVISED -
	PLOT SCALE = 8.0000 ' / in.	DRAWN - TCS	REVISED -
	PLOT DATE = 3/22/2019	CHECKED - LAS	REVISED -

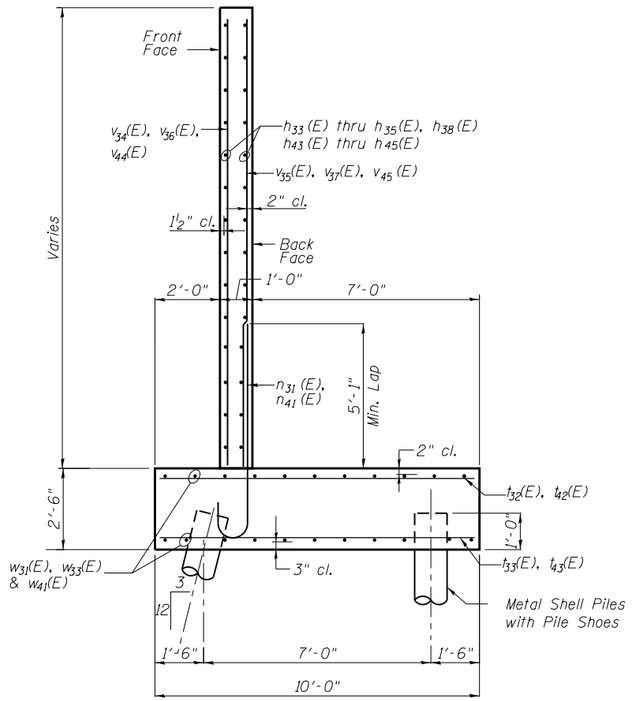
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EAST ABUTMENT FOOTING LAYOUT
STRUCTURE NO. 045-3069
SHEET NO. SA-23 OF SA-28 SHEETS

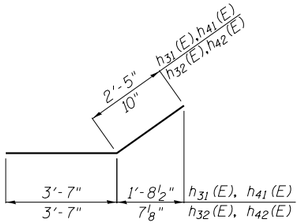
F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	107N-4	KANE	288	180
		CONTRACT NO. 60T21		
	ILLINOIS FED. AID PROJECT			



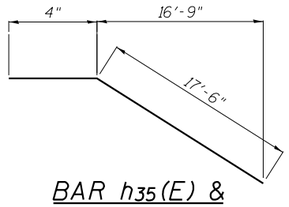
SECTION THRU ABUTMENT



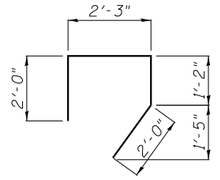
SECTION THRU WINGWALL



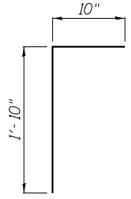
BARS $h_{31}(E)$, $h_{32}(E)$ $h_{41}(E)$ & $h_{42}(E)$



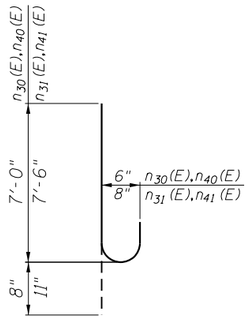
BAR $h_{35}(E)$ & BAR $h_{45}(E)$



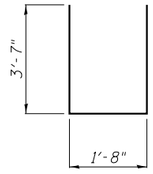
BARS $v_{32}(E)$ & $v_{42}(E)$



BAR $v_{33}(E)$ & $v_{43}(E)$



BARS $n_{30}(E)$, $n_{31}(E)$ $n_{40}(E)$ & $n_{41}(E)$



u30 (E)

BILL OF MATERIAL

West Abutment

Bar	No.	Size	Length	Shape
$h_{30}(E)$	60	#5	22'-2"	—
$h_{31}(E)$	15	#5	6'-0"	⟋
$h_{32}(E)$	15	#5	4'-5"	⟋
$h_{33}(E)$	22	#5	17'-0"	—
$h_{34}(E)$	5	#5	18'-9"	—
$h_{35}(E)$	2	#5	17'-10"	⟋
$h_{36}(E)$	28	#5	28'-0"	—
$h_{37}(E)$	2	#5	26'-8"	—
$h_{38}(E)$	30	#5	29'-4"	—
$n_{30}(E)$	140	#6	7'-8"	⊃
$n_{31}(E)$	94	#8	8'-5"	⊃
$t_{30}(E)$	60	#5	7'-8"	—
$t_{31}(E)$	117	#7	7'-8"	—
$t_{32}(E)$	55	#7	9'-8"	—
$t_{33}(E)$	55	#5	9'-8"	—
$u_{30}(E)$	15	#5	8'-10"	⊔
$v_{30}(E)$	94	#5	12'-11"	—
$v_{31}(E)$	139	#6	12'-11"	—
$v_{32}(E)$	70	#6	7'-5"	⌐
$v_{33}(E)$	70	#5	2'-6"	⌐
$v_{34}(E)$	23	#5	15'-8"	—
$v_{35}(E)$	36	#8	15'-8"	—
$v_{36}(E)$	30	#5	13'-10"	—
$v_{37}(E)$	60	#8	13'-10"	—
$w_{30}(E)$	36	#5	20'-6"	—
$w_{31}(E)$	22	#5	24'-11"	—
$w_{32}(E)$	18	#5	29'-4"	—
$w_{33}(E)$	44	#5	19'-11"	—

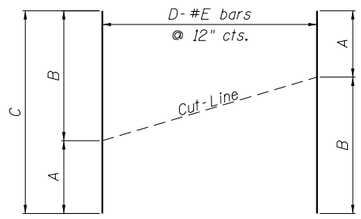
Item	Unit	Quantity
Concrete Structures	Cu. Yd.	195
Reinforcement Bars, Epoxy Coated	Pound	23,960
Geocomposite Wall Drain	Sq. Yd.	132
Granular Backfill for Structures	Cu. Yd.	176
Furnishing Metal Shell Piles 14"x.312"	Foot	836
Driving Piles	Foot	836
Piles Shoes	Each	39
Test Pile Metal Shells	Each	1

BILL OF MATERIAL

East Abutment

Bar	No.	Size	Length	Shape
$h_{40}(E)$	60	#5	21'-8"	—
$h_{41}(E)$	30	#5	6'-0"	⟋
$h_{42}(E)$	30	#5	4'-5"	⟋
$h_{43}(E)$	44	#5	17'-0"	—
$h_{44}(E)$	12	#5	18'-0"	⌐
$h_{45}(E)$	4	#5	17'-10"	⟋
$h_{46}(E)$	30	#5	28'-2"	—
$n_{40}(E)$	141	#6	7'-8"	⊃
$n_{41}(E)$	68	#8	8'-5"	⊃
$t_{40}(E)$	65	#5	7'-8"	—
$t_{41}(E)$	127	#7	7'-8"	—
$t_{42}(E)$	52	#7	9'-8"	—
$t_{43}(E)$	52	#5	9'-8"	—
$v_{40}(E)$	139	#5	12'-11"	—
$v_{41}(E)$	71	#6	12'-11"	—
$v_{42}(E)$	71	#6	7'-5"	⌐
$v_{43}(E)$	71	#5	2'-6"	⌐
$v_{44}(E)$	18	#5	26'-0"	—
$v_{45}(E)$	18	#8	26'-0"	—
$w_{40}(E)$	36	#5	20'-5"	—
$w_{41}(E)$	44	#5	24'-11"	—
$w_{42}(E)$	18	#5	25'-9"	—

Item	Unit	Quantity
Concrete Structures	Cu. Yd.	179.5
Reinforcement Bars, Epoxy Coated	Pound	19,230
Geocomposite Wall Drain	Sq. Yd.	109
Granular Backfill for Structures	Cu. Yd.	146
Furnishing Metal Shell Piles 14"x.312"	Foot	945
Driving Piles	Foot	945
Piles Shoes	Each	36
Test Pile Metal Shells	Each	1



*CUTTING DIAGRAM

	A	B	C	D	E
$h_{34}(E)$	3'-2"	15'-7"	18'-9"	5	5
* $h_{44}(E)$	2'-2"	15'-10"	18'-0"	6	5
$v_{44}(E)$	10'-3"	15'-9"	26'-0"	18	5
$v_{45}(E)$	10'-3"	15'-9"	26'-0"	18	8

*2 Locations

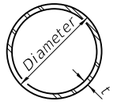
FILE NAME = P:\2015\09558 IDOT Dist IL Route 47 at Main S of Elburn (PTB 171-041)\04-CADD\01 CADD Sheets\10160721-Sa-24 Abutment Sections & B.O.M..dgn

HILHOUSE	USER NAME = yayoub	DESIGNED - LAS	REVISED -
		CHECKED - DAZ	REVISED -
	PLOT SCALE = 418.0000 '' / in.	DRAWN - TCS	REVISED -
	PLOT DATE = 3/22/2019	CHECKED - LAS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

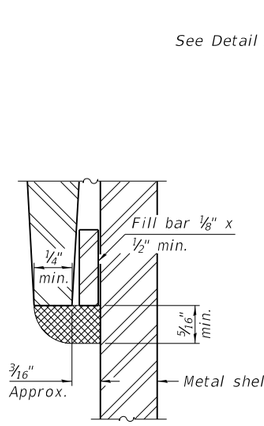
ABUTMENT SECTIONS & BILL OF MATERIALS
STRUCTURE NO. 045-3069
SHEET NO. SA-24 OF SA-28 SHEETS

F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	107N-4	KANE	288	181
		CONTRACT NO. 60T21		
	ILLINOIS FED. AID PROJECT			

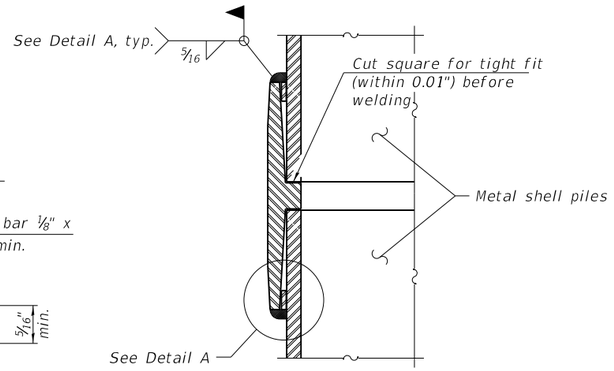


METAL SHELL PILE TABLE

Designation and outside diameter	Wall thickness t	Weight per foot (Lbs./ft.)	Inside volume ($yd.^3$/ft.)
PP12	0.250"	31.37	0.0267
PP14	0.250"	36.71	0.0368
PP14	0.312"	45.61	0.0361
PP16	0.312"	52.32	0.0478
PP16	0.375"	62.64	0.0470

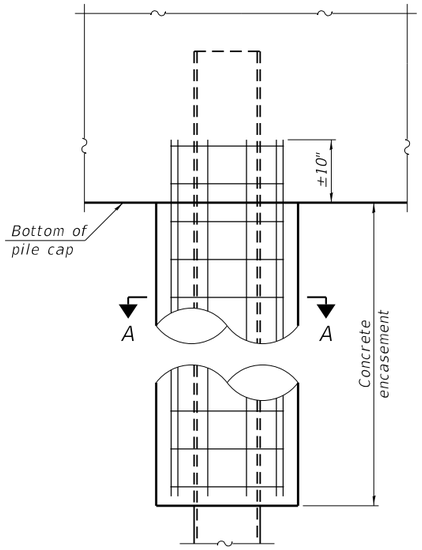


DETAIL A

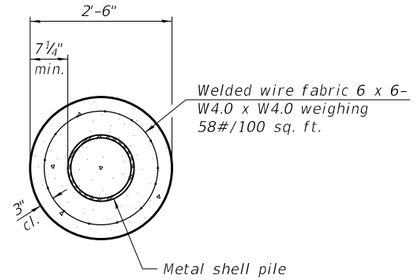


WELDED COMMERCIAL SPLICE

Notes:
The ⅛" x ½" min. fill bar may be constructed of 2 bars with a ⅛" max. gap between them.
Pile segments shall be driven to solid contact with splicer before welding.

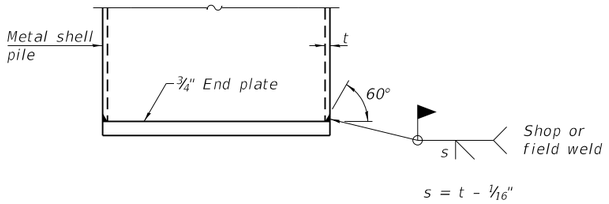


ELEVATION



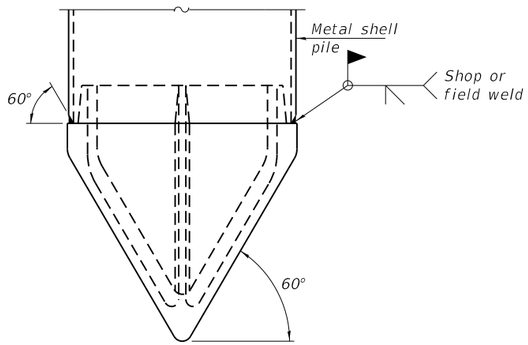
SECTION A-A

INDIVIDUAL PILE CONCRETE ENCASEMENT AT PIERS



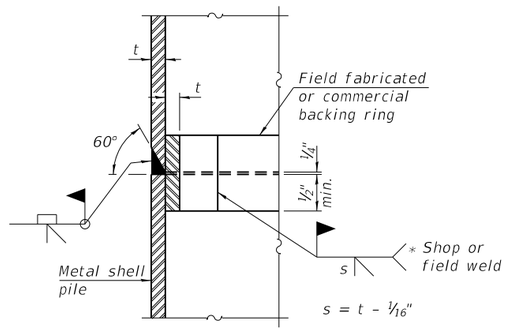
$s = t - 1/16"$

END PLATE ATTACHMENT



PILE SHOE ATTACHMENT

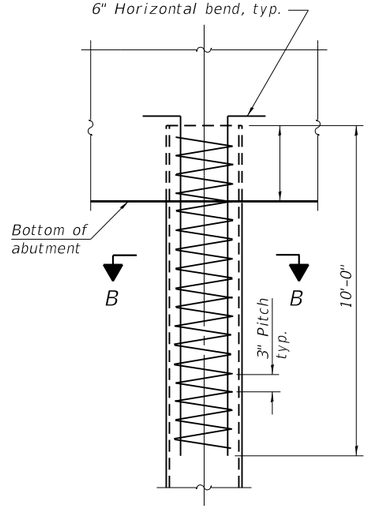
(When called for on the plans, the Contractor shall furnish metal shell pile shoes consisting of a single piece conical pile point as shown. The pile shoes shall be cast in one piece steel according to either ASTM A 148 Grade 90-60 or AASHTO M 103 Grade 65-35 and shall provide full bearing over the full circumference of the metal shell pile. The pile shoe shall have tapered leads to assure proper alignment and fitting and shall be secured to the pile with a circumferential weld).



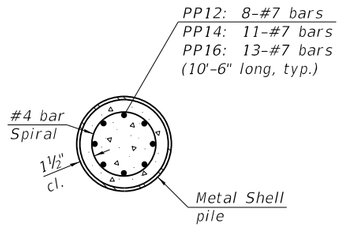
$s = t - 1/16"$

COMPLETE PENETRATION WELD SPLICE

* Field fabricated backing ring may be made from pile shell by removing segment to allow reducing circumference and vertically rejoin with partial joint penetration weld.



ELEVATION



SECTION B-B

REINFORCEMENT AT ABUTMENTS

Note:
The metal shell piles shall be according to Article 1006.05 of the Standard Specifications.

T = Total movement at expansion joint as shown on the design plans.

F-MS

8-11-2017

USER NAME = yeyyoub	DESIGNED - LAS	REVISED -	
	CHECKED - DAZ	REVISED -	
PLOT SCALE = 0.1667 '/ in.	DRAWN - TCS	REVISED -	
PLOT DATE = 3/22/2019	CHECKED - LAS	REVISED -	

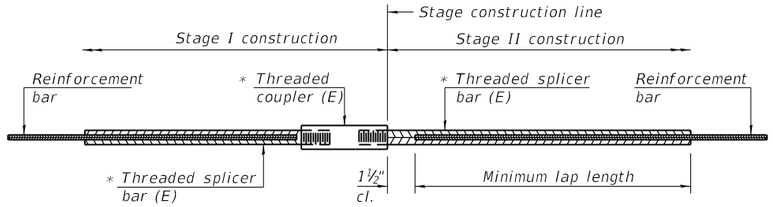
HILLHOUSE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

METAL SHELL DETAILS
STRUCTURE NO. 045-3069
SHEET NO. SA-25 OF SA-28 SHEETS

F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	107N-4	KANE	288	182
		CONTRACT NO. 60T21		
	ILLINOIS FED. AID PROJECT			

FILE NAME = P:\2015\0958 IDOT Dist IL Route 47 at Main S of Elburn (PTB 171-041)\04-CADD\01 CADD Sheets\D160721-Sa-25 Metal Shell Piles.dgn

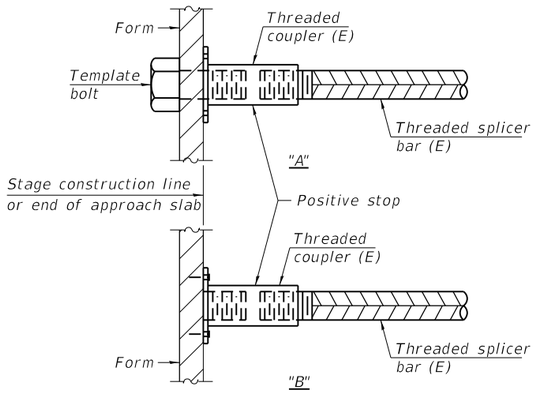


STANDARD BAR SPLICER ASSEMBLY

Threaded splicer bar length = min. lap length + 1½" + thread length

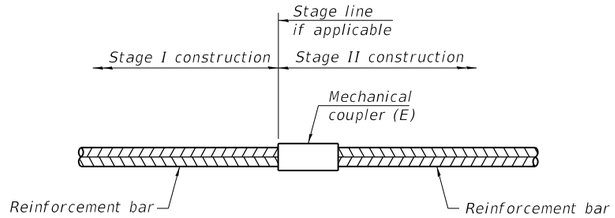
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
Concrete Wearing Surface	#4	46	2'-2"
Approach Slab	#5	92	3'-7"
Approach Slab	#8	120	4'-9"
Approach Footing	#5	80	3'-7"
Abutment	#5	96	3'-7"



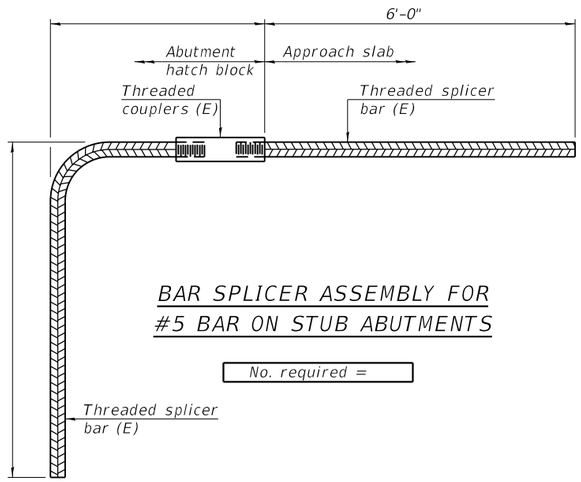
INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.
"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
(E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



NOTES

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.

All reinforcement shall be lapped and tied to the splicer bars.

Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.

See approved list of bar splicer assemblies and mechanical splicers for alternatives.

BSD-1

2-17-2017

MILHOUSE

USER NAME = yayyoub	DESIGNED - LAS	REVISED -	
	CHECKED - DAZ	REVISED -	
PLOT SCALE = 0.1667 ' / in.	DRAWN - TCS	REVISED -	
PLOT DATE = 3/22/2019	CHECKED - LAS	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
STRUCTURE NO. 045-3069
SHEET NO. SA-26 OF SA-28 SHEETS

F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	107N-4	KANE	288	183
		CONTRACT NO. 60T21		
	ILLINOIS FED. AID PROJECT			

FILE NAME = P:\2015\0558 IDOT Dist1IL Route 47 at Main S of Elburn (PTB 171-041\004-CADD\01 CADD Sheets\D160T21-SA-26 Bar Splicer Assembly.dgn

BORING LOG BB-01

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1145 N Main Street
Lombard, IL 60148
Telephone: 630 953-9928
Fax: 630 953-9938

BORING LOG BB-01

WEI Job No.: 192-03-01

Client: **Milhouse Engineering & Construction, Inc.**
Project: **IL 47 at Main Street Intersection Improvements**
Location: **Elburn, Kane County, IL**

Datum: NAVD 88
Elevation: 728.14 ft
North: 1884832.56 ft
East: 947436.10 ft
Station: 198+55.00
Offset: 12.69' LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	727.4	8-inch thick ASPHALT --PAVEMENT--						
	726.9	6-inch thick CONCRETE --PAVEMENT--						
	726.6	4-inch thick CRUSHED STONE						
		Medium stiff, brown SILTY CLAY --FILL--			1	4 2 1	0.50 P	27
	724.9	Stiff, dark brown SILTY CLAY, trace gravel and shells, organic odor	5		2	2 2 2	1.00 P	25
	722.6	Loose, dark brown SILTY LOAM, interbedded sand and clay, organic matter --Wet--			3	1 2 1	NP	78
	720.1	Loose, dark brown SANDY LOAM, interbedded silt, trace gravel, organic matter --Saturated--	10		4	1 5 3	NP	41
	717.6	Medium dense, brown SANDY GRAVEL --Saturated--			5	2 9 13	NP	13
		--Saturated--	15		6	4 6 8	NP	14
		--Saturated--			7	5 7 13	NP	11
		--becomes gray-- --Saturated--	20		8	14 14 5	NP	13
	707.6	Very stiff to hard, pinkish gray SILTY CLAY to SILTY CLAY LOAM, trace gravel, interbedded sand --Hard drilling, 20 to 21 feet--			9	3 8 11	2.71 B	12
			25		10	7 11 11	5.33 B	12
					11	6 11 12	4.25 B	12
			30		12	8 11 11	3.44 B	12
		--Interbedded sandy gravel--			13	12 14 23	>4.5 P	15
	691.1	Very dense, brown SANDY GRAVEL --Saturated--	40		14	11 31 30	NP	11

GENERAL NOTES

Begin Drilling: **05-15-2015** Complete Drilling: **05-15-2015**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME-55 TMR**
Driller: **R & N** Logger: **D. Kolpacki** Checked by: **B. Wilson**
Drilling Method: **3.25" IDA HSA, auto hammer, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **5.50 ft**
At Completion of Drilling: **10.00 ft**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 1920301.GPJ WANGENG.GDT 8/3/15

BORING LOG BB-01

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1145 N Main Street
Lombard, IL 60148
Telephone: 630 953-9928
Fax: 630 953-9938

BORING LOG BB-01

WEI Job No.: 192-03-01

Client: **Milhouse Engineering & Construction, Inc.**
Project: **IL 47 at Main Street Intersection Improvements**
Location: **Elburn, Kane County, IL**

Datum: NAVD 88
Elevation: 728.14 ft
North: 1884832.56 ft
East: 947436.10 ft
Station: 198+55.00
Offset: 12.69' LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	686.1	Very dense, gray fine SAND, trace gravel --Heaving sand-- --Wet--	45		15	25 39 40	NP	12
			50		16	14 29 35	NP	12
	676.1	Hard, gray CLAY LOAM, some gravel --Hard drilling, 50 to 53.5 feet --	55		17	59 50/5"	> 4.50 P	11
	671.6	Dense to very dense, SANDY GRAVEL --ARTESIAN GROUNDWATER BEARING LAYER--	60		18	5 15 20	NP	13
		--ARTESIAN GROUNDWATER BEARING LAYER-- --Heaving sand--	65		19	13 13 20	NP	4
		--Heaving sand and gravel--	70		20	25 32 38	NP	9
	656.4	Dense, gray, medium SAND, trace gravel --Heaving sand and gravel-- --Saturated--			21	13 23 26	NP	26
	653.1	Boring terminated at 75.00 ft	75					
			80					

GENERAL NOTES

Begin Drilling: **05-15-2015** Complete Drilling: **05-15-2015**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME-55 TMR**
Driller: **R & N** Logger: **D. Kolpacki** Checked by: **B. Wilson**
Drilling Method: **3.25" IDA HSA, auto hammer, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **5.50 ft**
At Completion of Drilling: **10.00 ft**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 1920301.GPJ WANGENG.GDT 8/3/15

FILE NAME = P:\2015\0558 IDOT Dist 1L Route 47 at Main S of Elburn (PTB 171-041)\04-CADD\01 CADD Sheets\D160721-SA-27 BoringLogs1.dgn

MILHOUSE	USER NAME = yayyoub	DESIGNED - LAS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
		CHECKED - DAZ	REVISED -	
	PLOT SCALE = 1.67 ' / in.	DRAWN - TCS	REVISED -	
	PLOT DATE = 3/22/2019	CHECKED - LAS	REVISED -	

BORING LOGS 1
STRUCTURE NO. 045-3069
SHEET NO. SA-27 OF SA-28 SHEETS

F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	107N-4	KANE	288	184
		CONTRACT NO. 60T21		
	ILLINOIS FED. AID PROJECT			

Wang Engineering
wangeng@wangeng.com
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Lombard, IL 60148
Telephone: 630 953-9928
Fax: 630 953-9938

BORING LOG BB-02

WEI Job No.: 192-03-01

Client: **Milhouse Engineering & Construction, Inc.**
Project: **IL 47 at Main Street Intersection Improvements**
Location: **Elburn, Kane County, IL**

Datum: NAVD 88
Elevation: 724.68 ft
North: 1884770.28 ft
East: 947486.61 ft
Station: 199+04.76
Offset: 50.19' RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	723.7	12-inch thick, brown SILTY LOAM						
		--TOPSOIL--						
		Loose, dark brown SILTY LOAM, trace gravel and roots			1	1 2 3	NP	33
	721.7	--Moist--						
		Stiff, dark brown CLAY LOAM, trace gravel, organic matter	5		2	2 6 7	1.00 P	52
	719.2	Medium dense, brown, fine SAND						
		--Saturated--			3	4 6 20	NP	16
	716.7	Medium dense, brown GRAVELLY SAND						
		--Saturated--	10		4	5 8 9	NP	16
		--becomes gray--			5	11 9 8	NP	8
		--%Gravel=65.1--						
		--%Sand=28.8--						
		--%Silt=5.0--						
		--%Clay=1.1--						
		--A-1-a (0)--	15		6	11 13 10	NP	11
	709.2	Very stiff to hard, pinkish gray SILTY CLAY LOAM, trace to little gravel						
		--Hard drilling, 18.5 to 20.5 feet--			7	9 9 11	4.43 B	11
		--Possible Cobbles--	20					
	699.2	Dense, gray SANDY GRAVEL						
		--Saturated--	25		9	10 12 17	2.00 P	14
					10	10 12 16	3.61 B	13
					11	10 16 21	NP	11
			30		12	14 16 17	NP	15
	692.9	Stiff, pinkish gray SILTY CLAY LOAM and GRAVEL						
			35		13	5 9 10	1.25 P	11
	687.9	Medium dense, gray medium to coarse SAND, trace to some gravel						
		-- Saturated--	40		14	13 12 14	NP	16

GENERAL NOTES

Begin Drilling: **04-22-2015** Complete Drilling: **04-23-2015**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-50 TMR**
Driller: **R & J** Logger: **D. Kolpacki** Checked by: **B. Wilson**
Drilling Method: **2.25" IDA SSA to 10', Mud rotary from 10', auto hammer, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **5.50 ft**
At Completion of Drilling: **0.00 ft**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 1920301.GPJ WANGENG.GDT 8/3/15

BORING LOG BB-02

Wang Engineering
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1145 N Main Street
Lombard, IL 60148
Telephone: 630 953-9928
Fax: 630 953-9938

BORING LOG BB-02

WEI Job No.: 192-03-01

Client: **Milhouse Engineering & Construction, Inc.**
Project: **IL 47 at Main Street Intersection Improvements**
Location: **Elburn, Kane County, IL**

Datum: NAVD 88
Elevation: 724.68 ft
North: 1884770.28 ft
East: 947486.61 ft
Station: 199+04.76
Offset: 50.19' RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	677.7	Dense, gray SILTY LOAM, interbedded, very stiff (3.0P), clay						
		--Wet--	45		15	8 12 14	NP	23
			50		16	18 19 25	NP	15
	672.9	Very stiff, pinkish gray CLAY LOAM, little gravel						
		--Interbedded silt--						
		--Wet--	55		17	17 31 50/1"	3.85 S	16
	667.9	Very dense, gray GRAVELLY LOAM						
		--Moist--	60		18	14 20 35	NP	10
		--HARD DRILLING--						
		--ARTESIAN GROUNDWATER BEARING LAYER--	65		19	43 43 27	NP	10
	657.9	Medium dense to very dense, gray and brownish gray, medium to coarse SAND, trace to some gravel						
		--Washed out sample--						
		--Saturated--	70		20	17 7 12	NP	27
			75		21	6 18 28 29	NP	11
	650.2	Boring terminated at 74.50 ft						
			80					

GENERAL NOTES

Begin Drilling: **04-22-2015** Complete Drilling: **04-23-2015**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-50 TMR**
Driller: **R & J** Logger: **D. Kolpacki** Checked by: **B. Wilson**
Drilling Method: **2.25" IDA SSA to 10', Mud rotary from 10', auto hammer, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **5.50 ft**
At Completion of Drilling: **0.00 ft**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 1920301.GPJ WANGENG.GDT 8/3/15

FILE NAME = P:\2015\0958 IDOT Dist IL Route 47 at Main S of Elburn (PTB 171-04)\04-CADD\01 CADD Sheets\0160721-SA-28_BoringLogs2.dgn

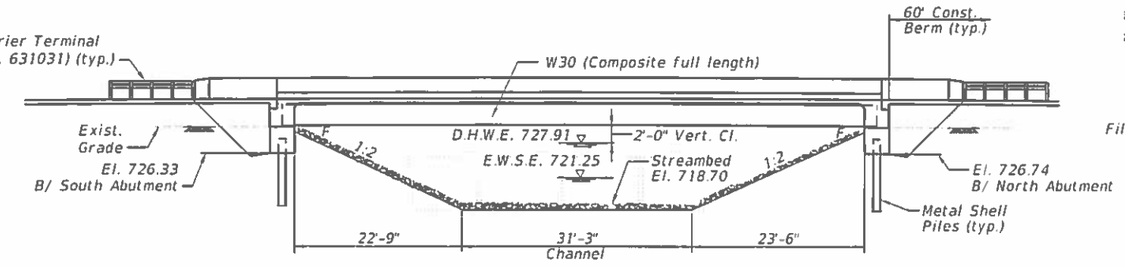
MILHOUSE	USER NAME = yayoub	DESIGNED - LAS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BORING LOGS 2 STRUCTURE NO. 045-3069
		CHECKED - DAZ	REVISED -		
	PLOT SCALE = 1.67 ' / in.	DRAWN - TCS	REVISED -		SHEET NO. SA-28 OF SA-28 SHEETS
	PLOT DATE = 3/22/2019	CHECKED - LAS	REVISED -		

F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	107N-4	KANE	288	185
		CONTRACT NO. 60T21		
		ILLINOIS FED. AID PROJECT		

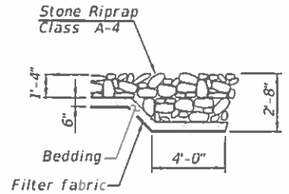
Bench Mark: "□" cut on top of Southwest Wingwall on Main St. bridge over Blackberry Creek El. 728.26

Existing Structure: S.N. 045-2000 was originally constructed in 1968 as a four cell reinforced concrete box culvert under Section 107B-1-1. Existing structure shall be removed and replaced. Traffic shall be maintained using Stage Construction.

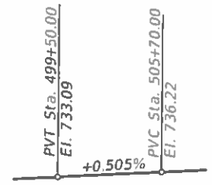
No Salvage.



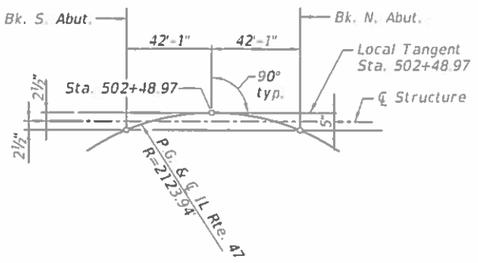
ELEVATION



SECTION A-A



PROFILE GRADE
(along ℄ IL Route 47)



OFFSET SKETCH

PROP. CURVE E IL 47-2

PI Sta. = 506+43.12
Δ= 35° 09' 27" (RT)
D = 2° 41' 51"
R = 2,123.94'
T = 672.89'
L = 1,303.28'
E = 104.04'
* S.E.=5.25%
T.R. = 42'
S.E. Run = 175'
P.C. Sta. = 499+70.23
P.T. Sta. = 512+73.51

* Superelevation to be held at a constant 4.0% over the bridge & approaches.

LOADING HL-93

Allow 50#/sq. ft. for future wearing surface

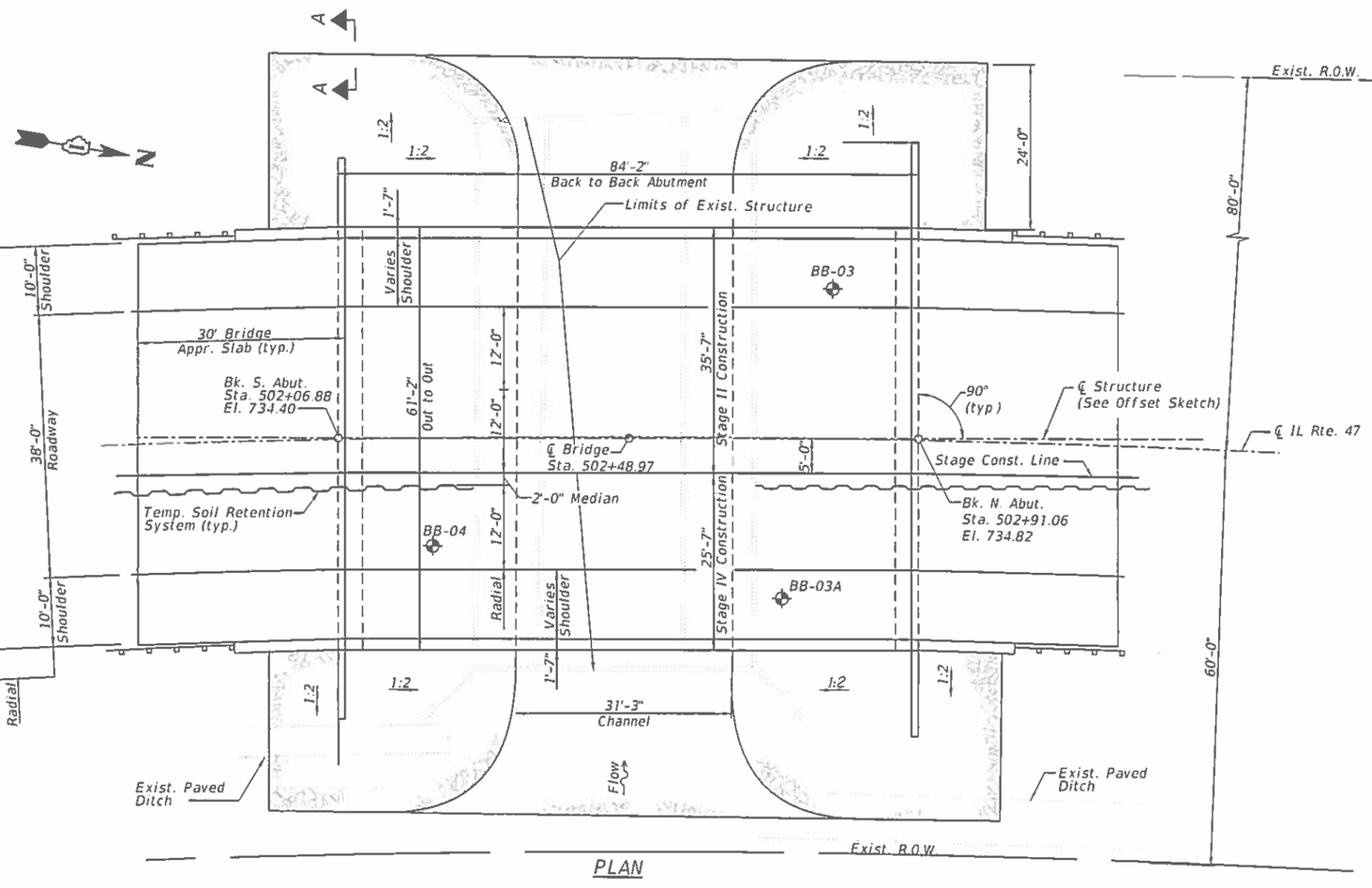
DESIGN SPECIFICATIONS

2014 AASHTO LRFD Bridge Design Specifications 7th Edition w/ 2015 and 2016 Interims

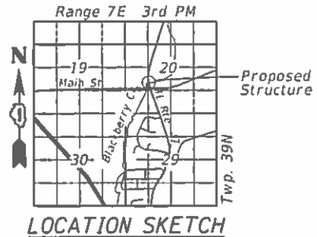
DESIGN STRESSES

FIELD UNITS

f'_c = 3,500 psi (Substructure)
f'_c = 4,000 psi (Superstructure Concrete)
f_y = 60,000 psi (reinforcement)
F_y = 50,000 psi (M270 Gr 50)



PLAN



LOCATION SKETCH

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (S_{D1}) = .089g
Design Spectral Acceleration at 0.2 sec. (S_{DS}) = .161g
Soil Site Class = D

APPROVED
FOR STRUCTURAL ADEQUACY ONLY
ENGINEER OF BRIDGES AND STRUCTURES

LICENSED STRUCTURAL ENGINEER
FREDRIC C. OWENS
081-005722
EXP. ____
CHICAGO, IL
STATE OF ILLINOIS

Signature — Date: March 21, 2019
Expires: November 30, 2020

GENERAL PLAN
ILLINOIS ROUTE 47 OVER BLACKBERRY CREEK
F.A.P. RTE. 524 - SEC. 107N-4
KANE COUNTY
STATION 502+48.97
STRUCTURE NO. 045-2050

FILE NAME = P:\2015\2558 1001 Dist IL Route 47 at Main St of Elburn PTB 171-011\84-C4001\81 C4001 Sheets\0184721-SB-1-General Plan & Elevation.dgn

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	CHECKED - DAZ	REVISED -	
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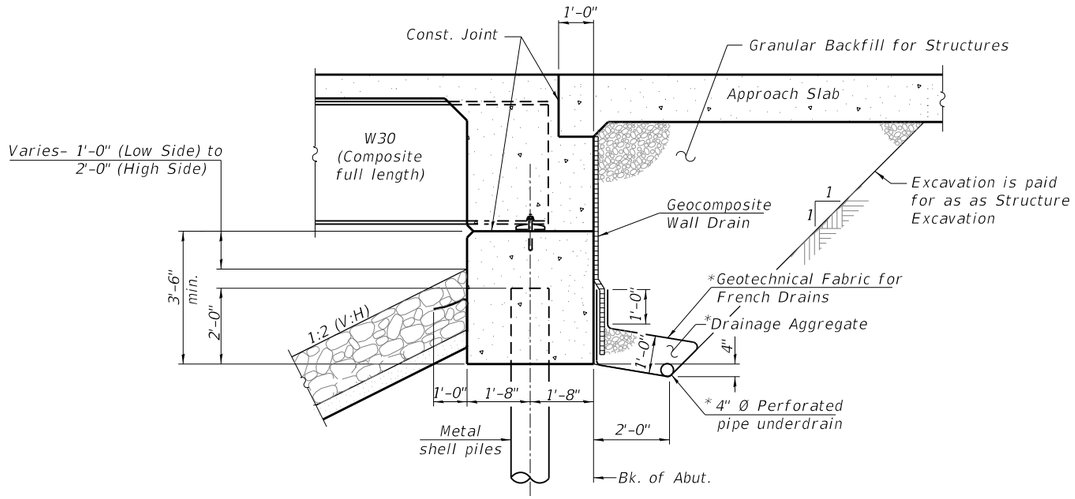
PLOT DATE = 3/21/2019	CHECKED - LAS	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN
STRUCTURE NO. 045-2050
SHEET NO. SB-1 OF SB-28 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	107N-4	KANE	288	186
		CONTRACT NO. 60T21		
		ILLINOIS FED. AID PROJECT		

INDEX OF SHEETS



SECTION THRU INTEGRAL ABUTMENT

(Horiz. dim. @ Rt. L's)

*Included in the cost of Pipe Underdrains for Structures. (See Special Provisions)

Note:
All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend from the wingwall on the low side until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A4	Sq. Yd.		1,106	1,106
Filter Fabric	Sq. Yd.		1,106	1,106
Removal of Existing Structures No. 2	Each			1
Structure Excavation	Cu. Yd.		150	150
Concrete Structures	Cu. Yd.		105.3	105.3
Concrete Superstructure	Cu. Yd.	220.7		220.7
Bridge Deck Grooving	Sq. Yd.	887		887
Protective Coat	Sq. Yd.	1,018		1,018
Concrete Superstructure (Approach Slab)	Cu. Yd.	168.4		168.4
Furnishing and Erecting Structural Steel	L.Sum	1		1
Stud Shear Connectors	Each	4,500		4,500
Reinforcement Bars, Epoxy Coated	Pound	102,490	20,500	122,990
Bar Splicers	Each	462	96	558
Furnishing Metal Shell Piles 14"x.312"	Foot		522	522
Driving Piles	Foot		522	522
Test Pile Metal Shells	Each		2	2
Pile Shoes	Each		20	20
Name Plates	Each	1		1
Anchor Bolts, 1"	Each	40		40
Temporary Soil Retention System	Sq. Ft.		669	669
Geocomposite Wall Drain	Sq. Yd.		118	118
Granular Backfill for Structures	Cu. Yd.		193	193
Pipe Underdrains for Structures, 4"	Foot		188	188

WATERWAY INFORMATION

Drainage Area = 11.32 sq. mi.
Exist. Low Grade Elev. =729.53 @ Sta. 501+17
Prop. Low Grade Elev. =734.50 @ Sta. 501+17

Flood	Freq. Yr.	Existing Discharge C.F.S.	Proposed Discharge C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
	10	634	634	203.2	334.5	726.33	0.12	0.13	726.45	726.46
Design	50	1120	1120	203.2	439.7	727.91	0.48	0.17	728.39	728.08
Base	100	1376	1376	203.2	472.8	728.44	0.51	0.32	728.95	728.76
Max. Calc.	500	2097	2097	516.8	570.3	729.88	0.04	0.23	729.92	730.11

10-Year Velocity through Existing Bridge = 3.12 fps
10-Year Velocity through Proposed Bridge = 1.90 fps
2-Year Flow Rate = 265 cfs

DESIGN SCOUR ELEVATION TABLE

Event/Limit State	Design Scour Elevations (ft.) S. Abut.	N. Abut.	Item 113
Q100	726.33	726.74	8
Q500	726.33	726.74	
Design	726.33	726.74	
Check	726.33	726.74	

STATION 502+48.97
BUILT BY
STATE OF ILLINOIS
FAP 326 SEC. 107N-4
LOADING HL-93
STRUCTURE NO. 045-2050

NAME PLATE

See Std. 515001

GENERAL NOTES

1. Fasteners shall be ASTM A325 Type 1, mechanically galvanized bolts. Bolts ¾-in. Ø, holes $1\frac{5}{16}$-in. Ø, unless otherwise noted.
2. Calculated weight of Structural Steel: Grade 50 = 172,317
   Grade 36 = 16,323
3. No field welding is permitted except as specified in the contract documents.
4. Reinforcement bars designated (E) shall be epoxy coated.
5. The Organic Zinc Rich Primer / Epoxy / Urethane Paint System shall be used for painting of new structural steel except where otherwise noted. The entire system shall be shop applied, with the exception of the exterior surface and the bottom of the bottom flange of fascia beams, masked off connection surfaces, field installed fasteners and damaged areas shall be touched up in the field. The color of the final finish coat for all interior steel surfaces shall be Gray, Munsell No. 5B 7/1. The color of the final finish coat for the exterior and bottom flange of the fascia beams shall be Reddish Brown Munsell No. 2.5YR3/4.
6. Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
7. The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.
8. Slipforming of the parapets is not allowed.

HILLHOUSE	USER NAME = yayoub	DESIGNED - LAS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL DATA STRUCTURE NO. 045-2050
		CHECKED - DAZ	REVISED -		
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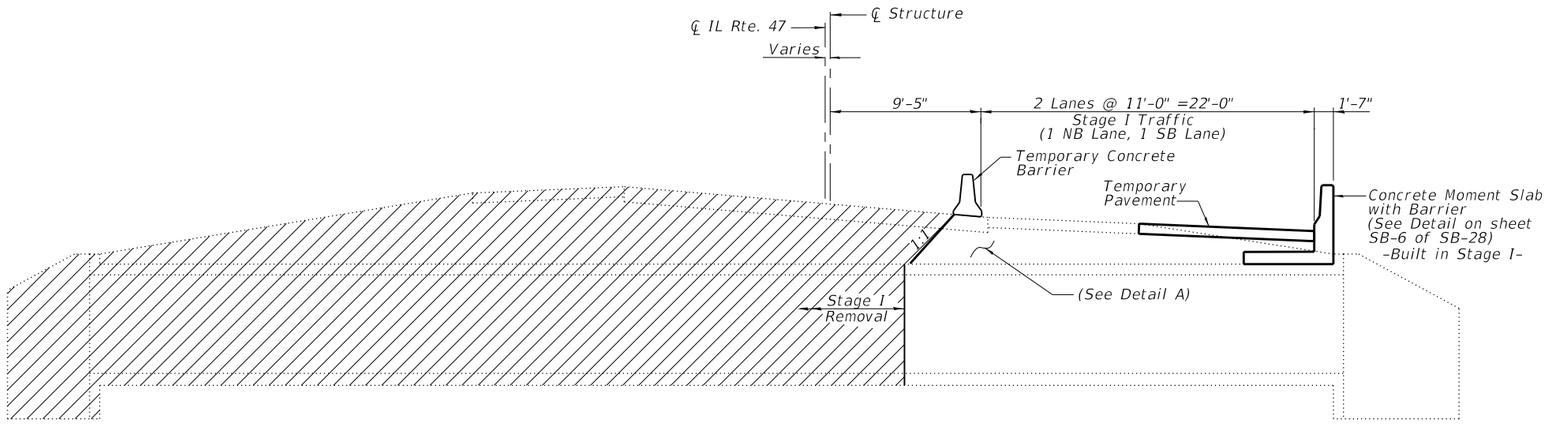
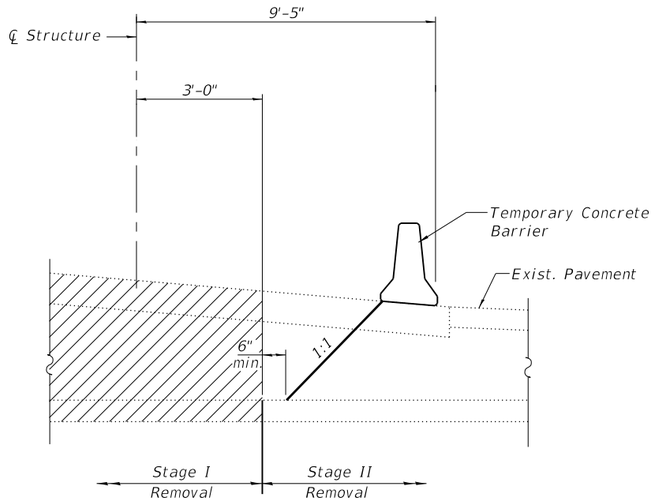
	PLOT DATE = 3/22/2019	CHECKED - LAS	REVISED -		SHEET NO. SB-2 OF SB-28 SHEETS

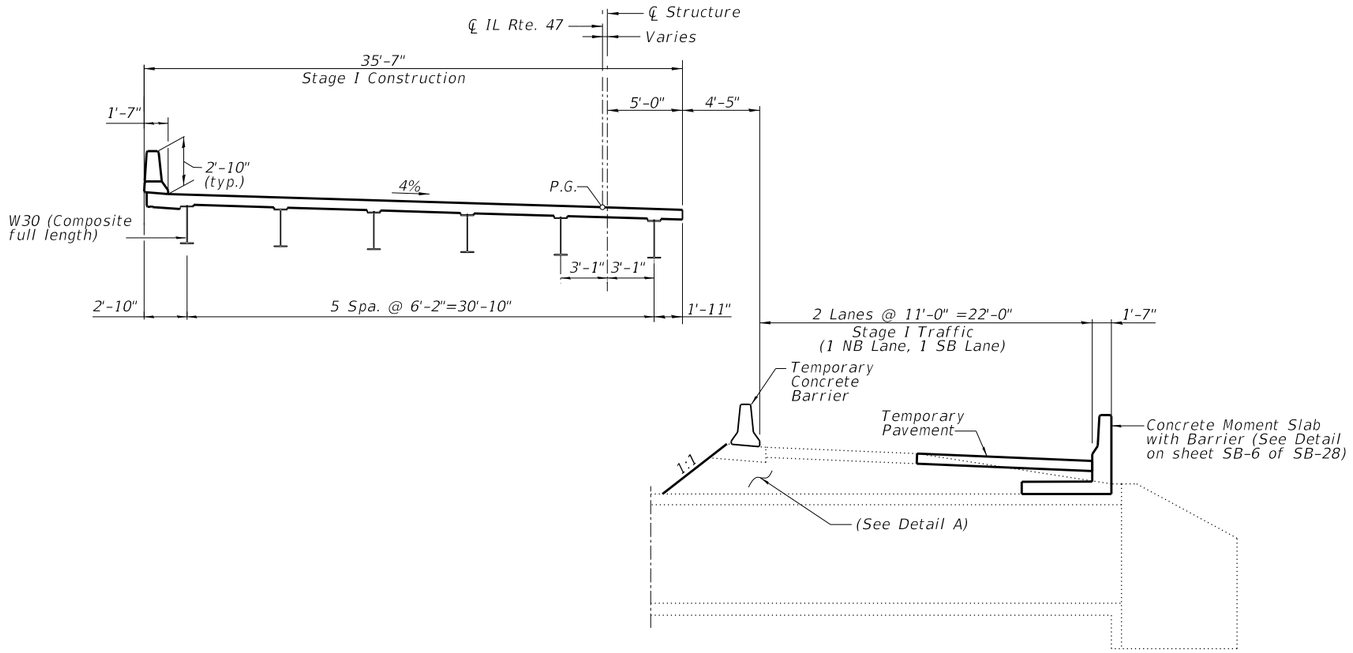
F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	107N-4	KANE	288	187
		CONTRACT NO. 60T21		
	ILLINOIS FED. AID PROJECT			



STAGE II REMOVAL
(Looking North)



DETAIL A



STAGE II CONSTRUCTION
(Looking North)

Notes:

Hatched areas indicate removal of existing structures.

For quantity of temporary concrete barrier, see Roadway Plans.

For details of temporary concrete barrier, see Sheet SB-7.

MILHOUSE

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	CHECKED - DAZ	REVISED -	
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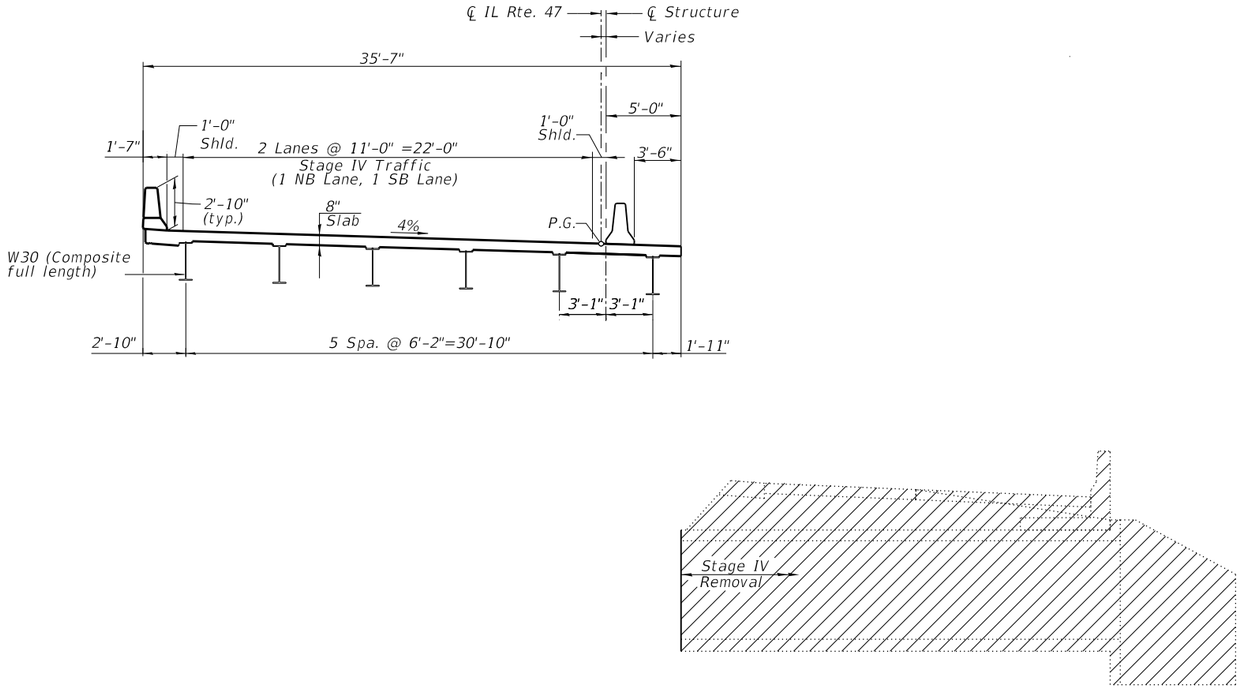
PLOT DATE = 1/28/2019	CHECKED - LAS	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

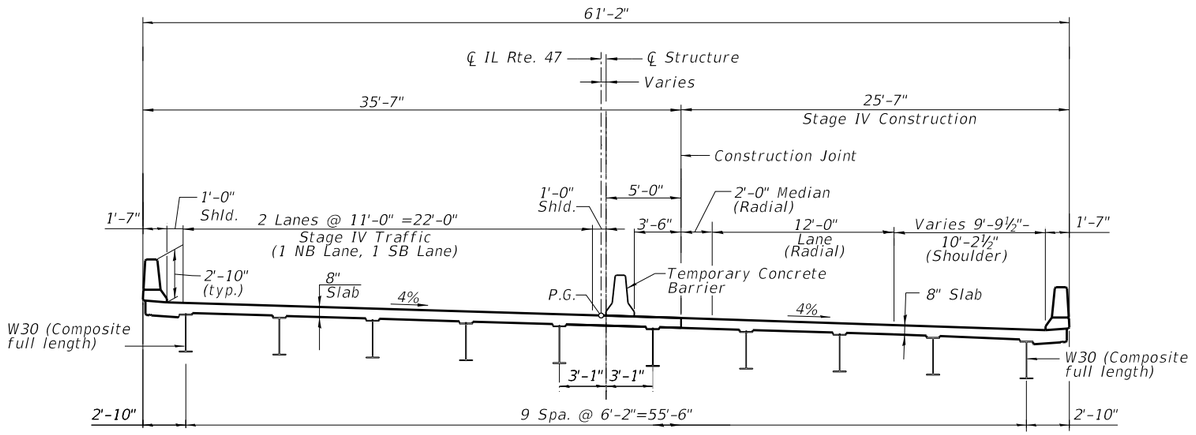
STAGE I CONSTRUCTION
STRUCTURE NO. 045-2050
SHEET NO. SB-3 OF SB-28 SHEETS

F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	107N-4	KANE	288	188
		CONTRACT NO. 60T21		
	ILLINOIS FED. AID PROJECT			



STAGE IV REMOVAL

(Looking North)



STAGE IV CONSTRUCTION

(Looking North)

Notes:

Hatched areas indicate removal of existing structures.

For quantity of temporary concrete barrier, see Roadway Plans.

For details of temporary concrete barrier, see Sheet SB-7.

MILHOUSE

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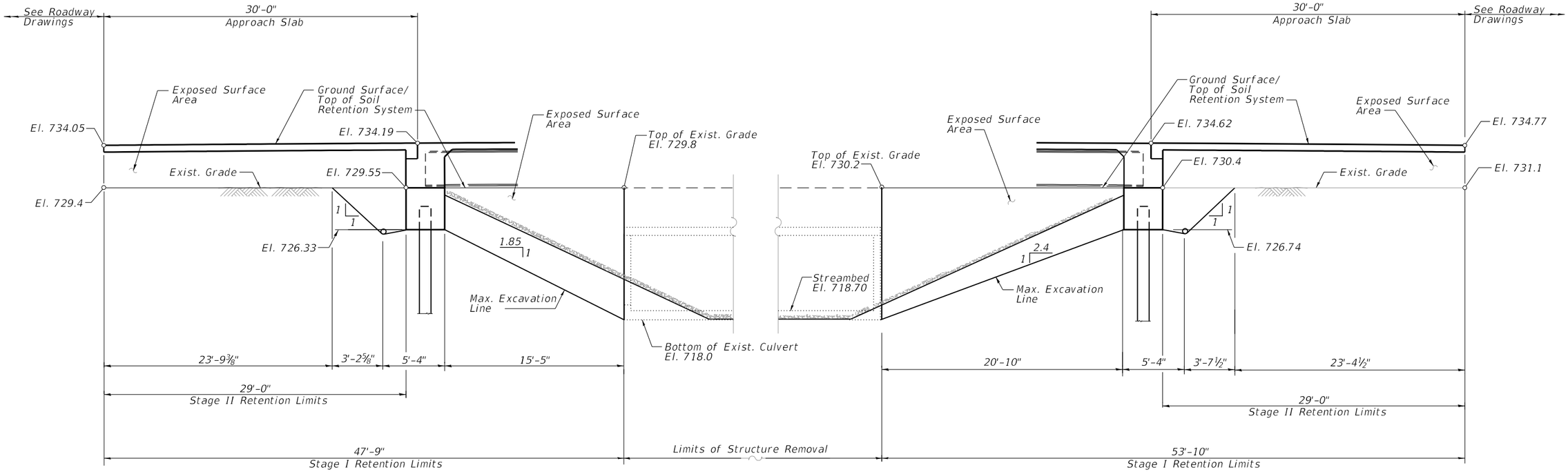
PLOT DATE = 1/28/2019	CHECKED - LAS	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE IV CONSTRUCTION
STRUCTURE NO. 045-2050

SHEET NO. SB-4 OF SB-28 SHEETS

F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	107N-4	KANE	288	189
		CONTRACT NO. 60T21		
	ILLINOIS FED. AID PROJECT			



TEMPORARY SOIL RETENTION SYSTEM

Note

A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.

For plan location of Temporary Soil Retention System, see sheet SB-1 of SB-28.

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Temporary Soil Retention System	Sq. Ft.	669

FILE NAME = P:\2015\0558 IDOT Dist1 IL Route 47 at Main S of Elburn (PTB 171-04)\04-CADD\01 CADD Sheets\D160721-SB-5_Temporary Soil Retention.dgn

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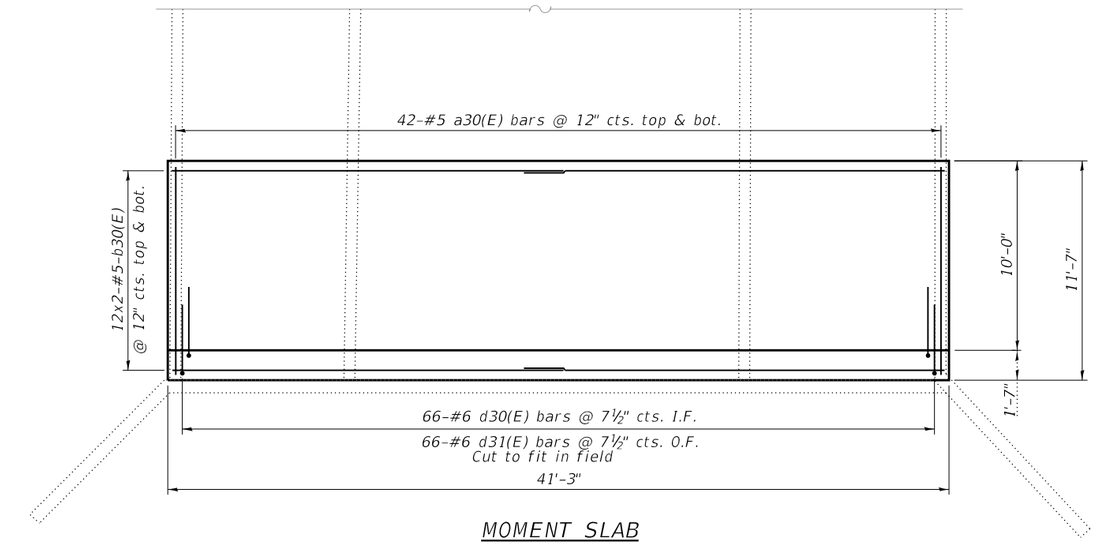
PLOT DATE = 1/28/2019	CHECKED - LAS	REVISED -	

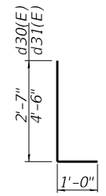
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY SOIL RETENTION SYSTEM
STRUCTURE NO. 045-2050
SHEET NO. SB-5 OF SB-28 SHEETS

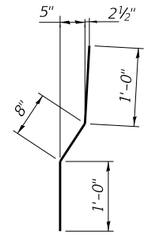
F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	107N-4	KANE	288	190
		CONTRACT NO. 60T21		
	ILLINOIS FED. AID PROJECT			



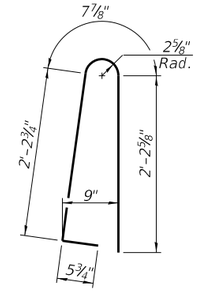
MOMENT SLAB
FOR STAGE I CONSTRUCTION



BARS d30(E) & d31(E)



BAR d32(E)



BAR d33(E)

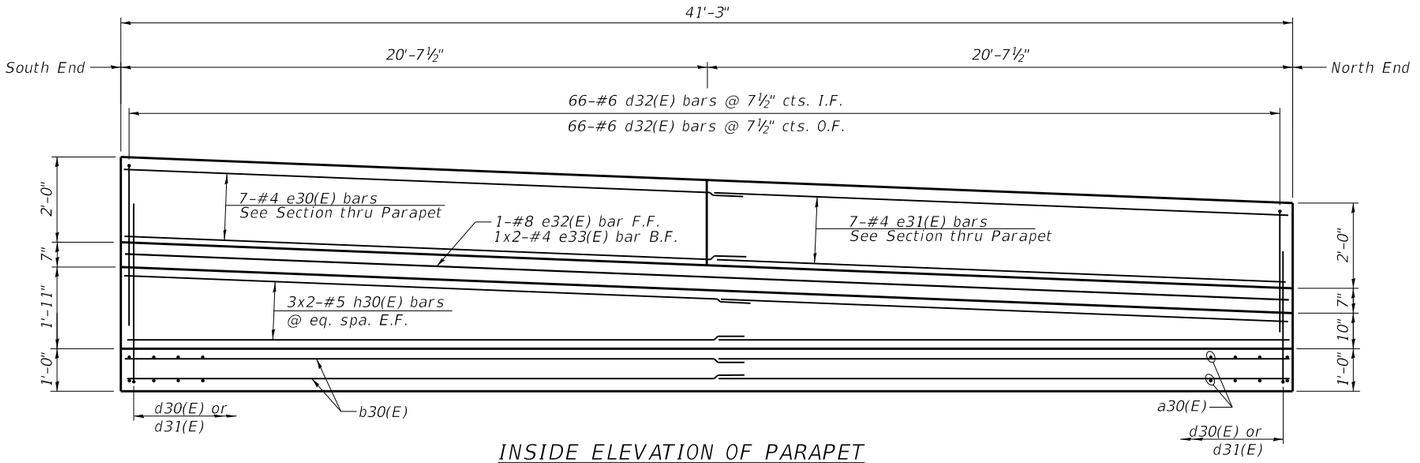
MOMENT SLAB
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a30(E)	84	#5	11'-3"	
b30(E)	48	#5	22'-3"	
d30(E)	66	#6	3'-7"	
d31(E)	66	#6	5'-6"	
d32(E)	66	#6	2'-8"	
d33(E)	66	#6	5'-7"	
e30(E)	7	#4	23'-1"	
e31(E)	7	#4	20'-4"	
e32(E)	1	#8	40'-11"	
e33(E)	2	#4	21-8"	
h30(E)	12	#5	22'-3"	
Reinforcement Bars, Epoxy Coated			Lbs.	4,440
Concrete Superstructure			Cu. Yds.	25.0

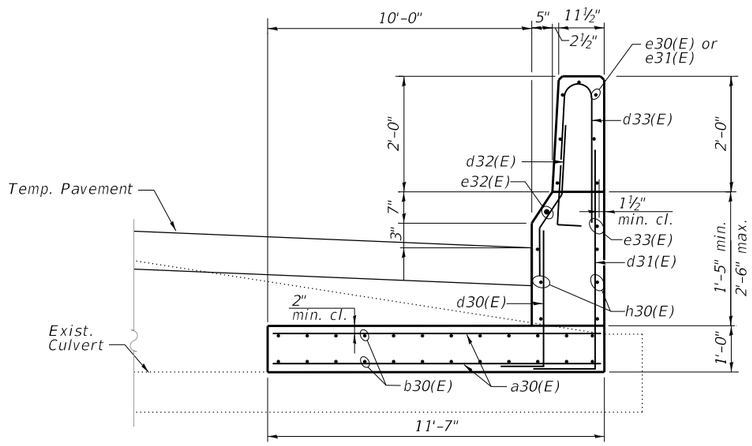
Bars indicated thus 3 x 2-#5 etc. indicates
3 line of bars with 2 lengths per line.

MINIMUM BAR LAP

#4 bar = 2'-5"
#5 bar = 3'-6"



INSIDE ELEVATION OF PARAPET
MOMENT SLAB FOR STAGE I CONSTRUCTION



SECTION THRU MOMENT SLAB

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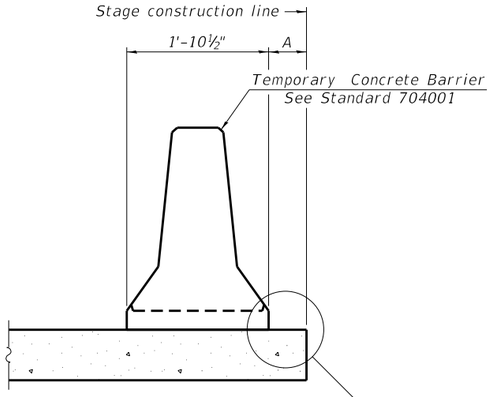
PLOT DATE = 1/28/2019	CHECKED - LAS	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

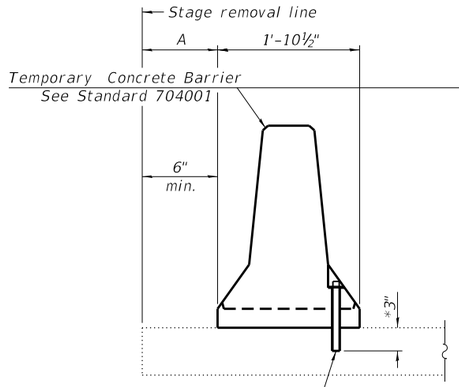
MOMENT SLAB
STRUCTURE NO. 045-2050
SHEET NO. SB-6 OF SB-28 SHEETS

F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	107N-4	KANE	288	191
		CONTRACT NO. 60T21		
	ILLINOIS FED. AID PROJECT			



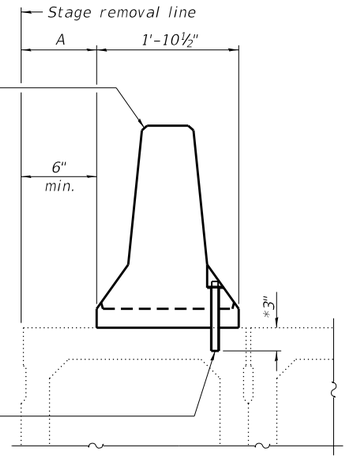
When "A" is 3'-1" or less, the temporary concrete barrier shall be restrained to the new slab according to Detail I, II or III. No restraint is required when "A" is greater than 3'-1".

NEW SLAB OR NEW DECK BEAM



Drill 3-1¼" Ø Holes in existing slab for 1" Ø restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

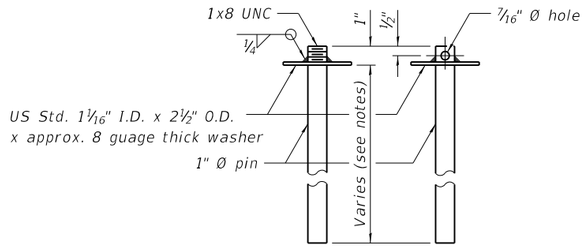
EXISTING SLAB



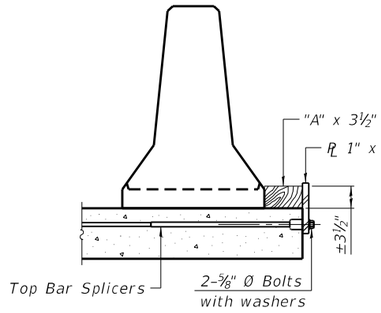
* When hot-mix asphalt wearng surface is present, embedment shall be 3" plus the wearing surface depth.

EXISTING DECK BEAM

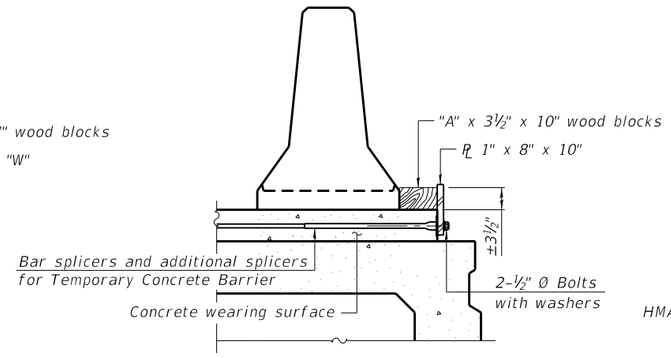
SECTIONS THRU SLAB OR DECK BEAM



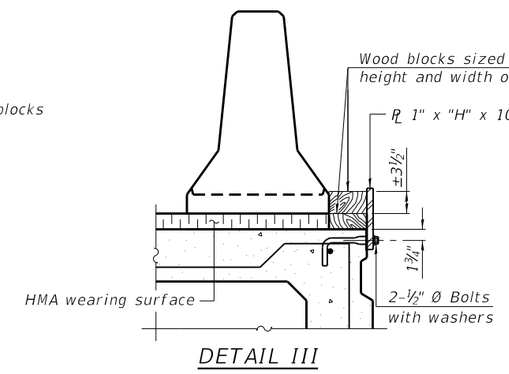
RESTRAINING PIN



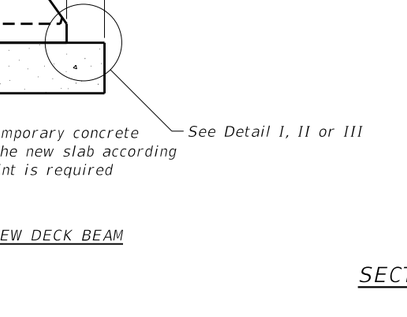
DETAIL I



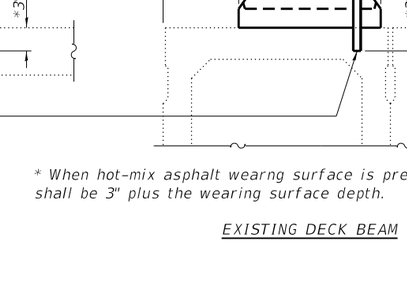
DETAIL II



DETAIL III



STEEL RETAINER PL 1" x 8" x "W"
(Detail I and II)



STEEL RETAINER PL 1" x "H" x 10"
(Detail III)

BAR SPLICER FOR #4 BAR - DETAIL III

Notes:

Cost of retainer assembly is included with Temporary Concrete Barrier.

A retainer assembly shall be located at the approximate ℄ of each temporary concrete barrier.

The retainer plate shall not be removed until the concrete on the adjacent stage is ready to be poured. For Detail III applications the retainer plate shall not be removed until just prior to placing the adjacent beam.

When the 'A' dimension is less than 1½", the wood block shall be omitted and the barrier shall be placed in direct contact with the steel retainer plate. For deck beam applications the minimum required 'A' distance is 6" to accommodate the shear key clamping device.

Detail I - Installation for a new bridge deck or bridge slab.

Detail II - Installation for a new deck beam with an initial concrete wearing surface. Additional bar splicers shall be provided at 6'-0" centers and paired with the bar splicers of the concrete wearing surface reinforcement to accommodate the installation of the retainer assemblies. The cost of the additional bar splicers is included with the concrete wearing surface.

Detail III - Installation for a new deck beam with no initial wearing surface or with an initial hot-mix asphalt (HMA) wearing surface present. The deck beam directly beneath the temporary concrete barrier shall be fabricated with bar splicer inserts in the side of the beam, as detailed, to accommodate the installation of the retainer assemblies. A pair of bar splicers, 6" apart, shall be placed at 6'-0" centers along the length of the beam. The cost of the bar splicers is included with the deck beam.

R-27

8-11-2017

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
STRUCTURE NO. 045-2050
SHEET NO. SB-7 OF SB-28 SHEETS

F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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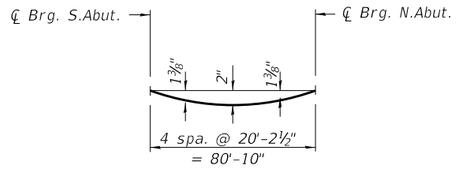
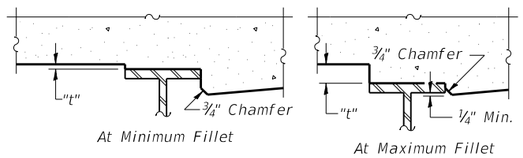
		CONTRACT NO. 60T21		
	ILLINOIS FED. AID PROJECT			



DEAD LOAD DEFLECTION DIAGRAM

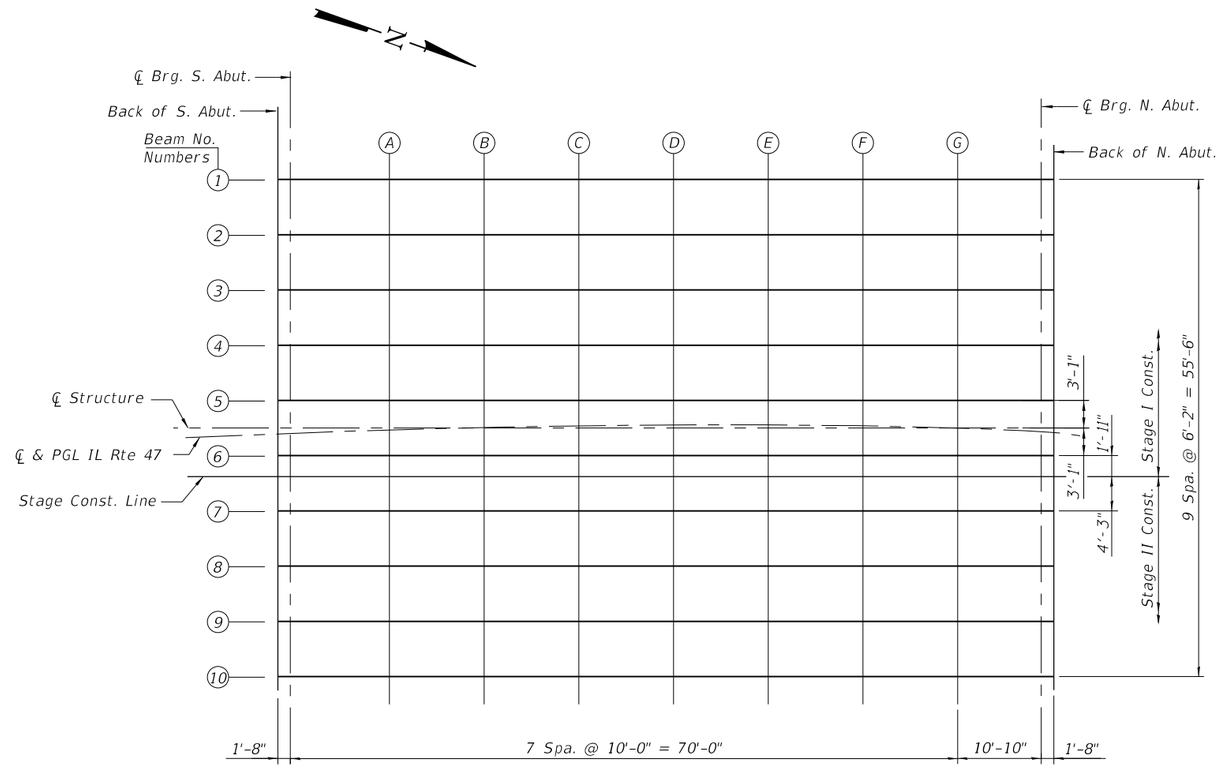
(Includes weight of concrete only.)

Note:
The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown on sheets SB-8 thru SB-10.



To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown below. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for "Dead Load Deflection" on sheets SB-8 thru SB-10, minus slab thickness, equals the fillet heights "t" above top flange of beams.

FILLET HEIGHTS



PLAN FOR TOP OF SLAB ELEVATIONS

BEAM 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk S. Abut.	502+07.43	-27.95	735.51	735.51
CL Brg S. Abut.	502+09.07	-27.92	735.51	735.51
A	502+18.94	-27.76	735.56	735.63
B	502+28.81	-27.64	735.60	735.73
C	502+38.68	-27.57	735.65	735.81
D	502+48.55	-27.54	735.70	735.87
E	502+58.43	-27.56	735.75	735.91
F	502+68.30	-27.63	735.80	735.93
G	502+78.17	-27.74	735.86	735.93
CL Brg N. Abut.	502+88.86	-27.92	735.92	735.92
Bk N. Abut.	502+90.50	-27.95	735.93	735.93

BEAM 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk S. Abut.	502+07.31	-21.79	735.26	735.26
CL Brg S. Abut.	502+08.96	-21.76	735.27	735.27
A	502+18.85	-21.59	735.31	735.38
B	502+28.75	-21.47	735.36	735.48
C	502+38.65	-21.40	735.40	735.56
D	502+48.55	-21.38	735.45	735.63
E	502+58.45	-21.40	735.50	735.67
F	502+68.35	-21.46	735.56	735.68
G	502+78.25	-21.58	735.61	735.68
CL Brg N. Abut.	502+88.98	-21.76	735.67	735.67
Bk N. Abut.	502+90.62	-21.79	735.68	735.68

BEAM 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk S. Abut.	502+07.19	-15.62	735.01	735.01
CL Brg S. Abut.	502+08.84	-15.59	735.02	735.02
A	502+18.77	-15.42	735.06	735.13
B	502+28.69	-15.31	735.11	735.23
C	502+38.62	-15.23	735.16	735.32
D	502+48.55	-15.21	735.21	735.38
E	502+58.48	-15.23	735.26	735.42
F	502+68.41	-15.30	735.31	735.44
G	502+78.34	-15.41	735.36	735.44
CL Brg N. Abut.	502+89.09	-15.59	735.43	735.43
Bk N. Abut.	502+90.74	-15.62	735.43	735.43

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HILHOUSE

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS 1
STRUCTURE NO. 045-2050
SHEET NO. SB-8 OF SB-28 SHEETS

F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	107N-4	KANE	288	193
		CONTRACT NO. 60T21		
	ILLINOIS FED. AID PROJECT			

BEAM 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk S. Abut.	502+07.07	-9.46	734.77	734.77
CL Brg S. Abut.	502+08.72	-9.42	734.77	734.77
A	502+18.68	-9.26	734.82	734.88
B	502+28.64	-9.14	734.86	734.99
C	502+38.59	-9.07	734.91	735.07
D	502+48.55	-9.04	734.96	735.13
E	502+58.51	-9.06	735.01	735.17
F	502+68.47	-9.13	735.06	735.19
G	502+78.42	-9.25	735.12	735.19
CL Brg N. Abut.	502+89.21	-9.42	735.18	735.18
Bk N. Abut.	502+90.86	-9.46	735.19	735.19

BEAM 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk S. Abut.	502+06.94	-3.29	734.52	734.52
CL Brg S. Abut.	502+08.61	-3.26	734.53	734.53
A	502+18.59	-3.09	734.57	734.64
B	502+28.58	-2.97	734.62	734.74
C	502+38.56	-2.90	734.66	734.82
D	502+48.55	-2.88	734.71	734.89
E	502+58.54	-2.90	734.76	734.93
F	502+68.52	-2.97	734.82	734.94
G	502+78.51	-3.08	734.87	734.94
CL Brg N. Abut.	502+89.32	-3.26	734.93	734.93
Bk N. Abut.	502+90.99	-3.29	734.94	734.94

CL STRUCTURE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk S. Abut.	502+06.88	-0.21	734.40	734.40
CL Brg S. Abut.	502+08.55	-0.18	734.40	734.40
A	502+18.55	-0.01	734.45	734.51
B	502+28.55	0.11	734.49	734.61
C	502+38.55	0.18	734.54	734.70
D	502+48.55	0.21	734.59	734.76
E	502+58.55	0.19	734.64	734.80
F	502+68.55	0.12	734.69	734.82
G	502+78.55	0.00	734.75	734.82
CL Brg N. Abut.	502+89.38	-0.18	734.81	734.81
Bk N. Abut.	502+91.05	-0.21	734.82	734.82

PGL & CL IL ROUTE 47

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk S. Abut.	502+06.88	0.00	734.39	734.39
CL Brg S. Abut.	502+08.55	0.00	734.40	734.40
A	502+18.55	0.00	734.45	734.51
B	502+28.55	0.00	734.50	734.62
C	502+38.55	0.00	734.55	734.71
D	502+48.55	0.00	734.60	734.77
E	502+58.55	0.00	734.65	734.81
F	502+68.55	0.00	734.70	734.82
G	502+78.55	0.00	734.75	734.82
CL Brg N. Abut.	502+89.39	0.00	734.80	734.80
Bk N. Abut.	502+91.05	0.00	734.81	734.81

BEAM 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk S. Abut.	502+06.82	2.87	734.27	734.27
CL Brg S. Abut.	502+08.49	2.91	734.28	734.28
A	502+18.50	3.07	734.32	734.39
B	502+28.52	3.19	734.37	734.49
C	502+38.53	3.27	734.42	734.58
D	502+48.55	3.29	734.47	734.64
E	502+58.56	3.27	734.52	734.68
F	502+68.58	3.20	734.57	734.70
G	502+78.59	3.09	734.63	734.70
CL Brg N. Abut.	502+89.44	2.91	734.69	734.69
Bk N. Abut.	502+91.11	2.87	734.70	734.70

STAGE CONSTRUCTION LINE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk S. Abut.	502+06.78	4.79	734.19	734.19
CL Brg S. Abut.	502+08.45	4.82	734.20	734.20
A	502+18.48	4.99	734.25	734.31
B	502+28.50	5.11	734.29	734.41
C	502+38.52	5.18	734.34	734.50
D	502+48.55	5.21	734.39	734.56
E	502+58.57	5.19	734.44	734.60
F	502+68.60	5.12	734.49	734.62
G	502+78.62	5.00	734.55	734.62
CL Brg N. Abut.	502+89.48	4.82	734.61	734.61
Bk N. Abut.	502+91.15	4.79	734.62	734.62

MILHOUSE

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS 2
STRUCTURE NO. 045-2050
SHEET NO. SB-9 OF SHEETS

F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	107N-4	KANE	288	194
		CONTRACT NO. 60T21		
	ILLINOIS	FED. AID PROJECT		

BEAM 7

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk S. Abut.	502+06.70	9.04	734.02	734.02
CL Brg S. Abut.	502+08.37	9.07	734.03	734.03
A	502+18.41	9.24	734.08	734.14
B	502+28.46	9.36	734.12	734.24
C	502+38.50	9.43	734.17	734.33
D	502+48.55	9.46	734.22	734.39
E	502+58.59	9.44	734.27	734.43
F	502+68.64	9.37	734.32	734.45
G	502+78.68	9.25	734.38	734.45
CL Brg N. Abut.	502+89.56	9.07	734.44	734.44
Bk N. Abut.	502+91.23	9.04	734.45	734.45

BEAM 8

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk S. Abut.	502+06.58	15.20	733.78	733.78
CL Brg S. Abut.	502+08.25	15.24	733.78	733.78
A	502+18.33	15.41	733.83	733.90
B	502+28.40	15.53	733.87	734.00
C	502+38.47	15.60	733.92	734.08
D	502+48.55	15.62	733.97	734.15
E	502+58.62	15.60	734.02	734.19
F	502+68.69	15.53	734.08	734.20
G	502+78.77	15.42	734.13	734.20
CL Brg N. Abut.	502+89.68	15.24	734.20	734.20
Bk N. Abut.	502+91.35	15.21	734.20	734.20

BEAM 9

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk S. Abut.	502+06.45	21.37	733.53	733.53
CL Brg S. Abut.	502+08.13	21.40	733.54	733.54
A	502+18.24	21.57	733.58	733.65
B	502+28.34	21.69	733.63	733.75
C	502+38.44	21.77	733.68	733.84
D	502+48.54	21.79	733.73	733.90
E	502+58.65	21.77	733.78	733.94
F	502+68.75	21.70	733.83	733.96
G	502+78.85	21.58	733.89	733.96
CL Brg N. Abut.	502+89.80	21.40	733.95	733.95
Bk N. Abut.	502+91.48	21.37	733.96	733.96

BEAM 10

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk S. Abut.	502+06.33	27.54	733.28	733.28
CL Brg S. Abut.	502+08.01	27.57	733.29	733.29
A	502+18.15	27.74	733.33	733.40
B	502+28.28	27.86	733.38	733.50
C	502+38.41	27.93	733.43	733.59
D	502+48.54	27.96	733.48	733.65
E	502+58.68	27.94	733.53	733.69
F	502+68.81	27.87	733.58	733.71
G	502+78.94	27.75	733.64	733.71
CL Brg N. Abut.	502+89.92	27.57	733.70	733.70
Bk N. Abut.	502+91.60	27.54	733.71	733.71

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS 3
STRUCTURE NO. 045-2050
SHEET NO.SB-10 OF SB-28 SHEETS

F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	107N-4	KANE	288	195
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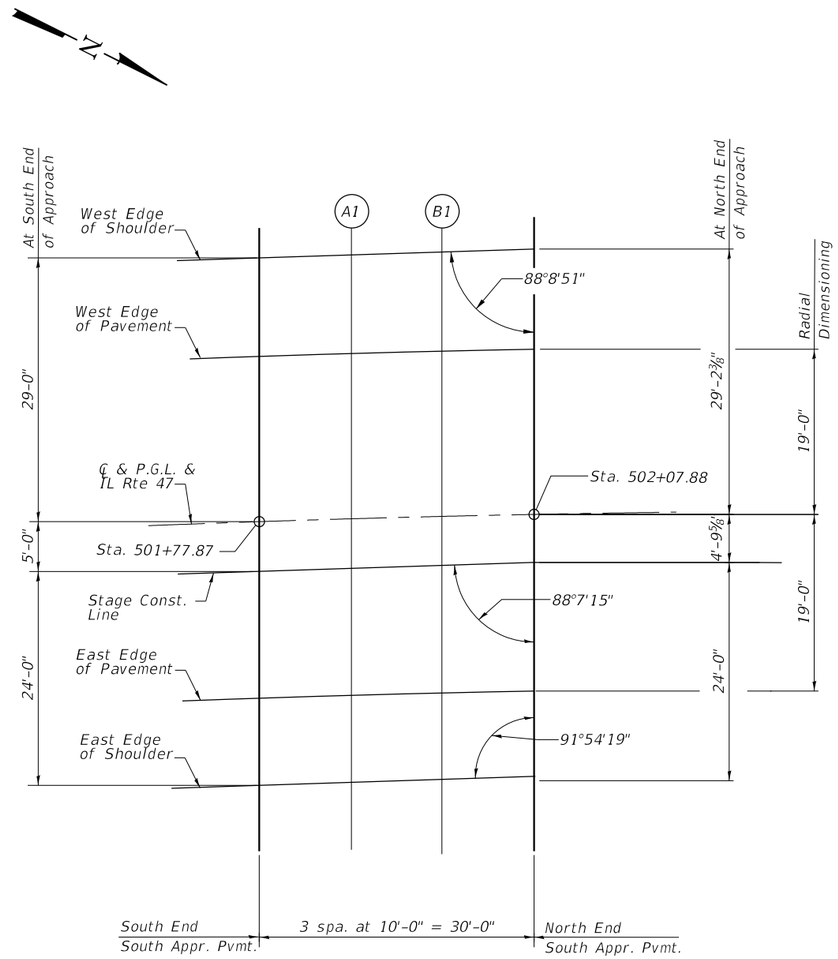
	ILLINOIS FED. AID PROJECT			



SOUTH APPROACH
PLAN FOR TOP OF SLAB ELEVATIONS

WEST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
S. End S. Appr. Pvmt.	501+78.82	-29.00	735.41
A1	501+88.69	-29.01	735.46
B1	501+98.56	-29.07	735.51
N. End S. Appr. Pvmt.	502+08.43	-29.18	735.56

WEST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
S. End S. Appr. Pvmt.	501+78.50	-19.00	735.00
A1	501+88.42	-19.00	735.05
B1	501+98.33	-19.00	735.10
N. End S. Appr. Pvmt.	502+08.24	-19.00	735.15

℄ & PGL IL RTE. 47

Location	Station	Offset	Theoretical Grade Elevations
S. End S. Appr. Pvmt.	501+77.87	0.00	734.24
A1	501+87.87	0.00	734.29
B1	501+97.88	0.00	734.34
N. End S. Appr. Pvmt.	502+07.88	0.00	734.39

STAGE CONSTRUCTION LINE

Location	Station	Offset	Theoretical Grade Elevations
S. End S. Appr. Pvmt.	501+77.70	5.00	734.04
A1	501+87.73	4.97	734.09
B1	501+97.75	4.91	734.14
N. End S. Appr. Pvmt.	502+07.78	4.80	734.20

EAST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
S. End S. Appr. Pvmt.	501+77.23	19.00	733.48
A1	501+87.32	19.00	733.53
B1	501+97.42	19.00	733.58
N. End S. Appr. Pvmt.	502+07.51	19.00	733.63

EAST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
S. End S. Appr. Pvmt.	501+76.88	29.00	733.08
A1	501+87.02	28.98	733.13
B1	501+97.17	28.92	733.18
N. End S. Appr. Pvmt.	502+07.31	28.81	733.24

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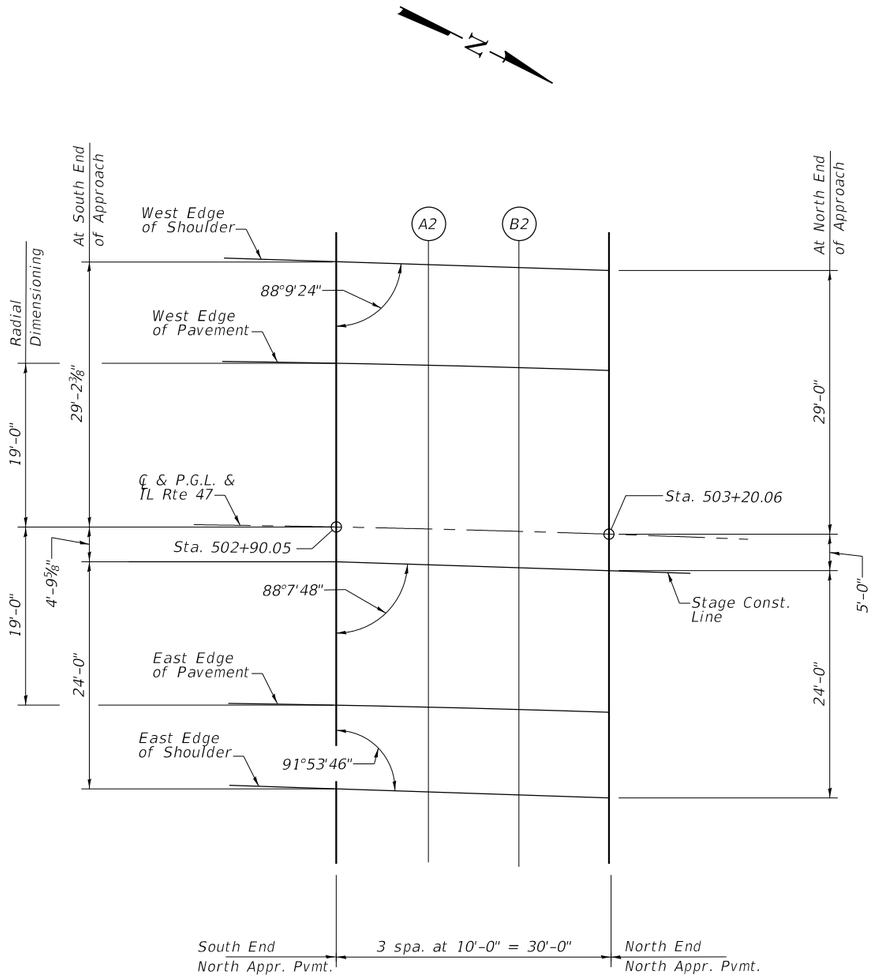
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOUTH APPROACH TOP OF SLAB ELEVATIONS
STRUCTURE NO. 045-2050
SHEET NO. SB-11 OF SB-28 SHEETS

F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	107N-4	KANE	288	196
		CONTRACT NO. 60T21		
	ILLINOIS FED. AID PROJECT			



NORTH APPROACH
PLAN FOR TOP OF SLAB ELEVATIONS

WEST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
S. End N. Appr. Pvmt.	502+89.49	-29.18	735.97
A2	502+99.36	-29.08	736.02
B2	503+09.23	-29.01	736.06
N. End N. Appr. Pvmt.	503+19.10	-29.00	736.11

WEST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
S. End N. Appr. Pvmt.	502+89.69	-19.00	735.56
A2	502+99.60	-19.00	735.61
B2	503+09.52	-19.00	735.66
N. End N. Appr. Pvmt.	503+19.43	-19.00	735.72

℄ & PGL IL RTE. 47

Location	Station	Offset	Theoretical Grade Elevations
S. End N. Appr. Pvmt.	502+90.05	0.00	734.81
A2	503+00.06	0.00	734.86
B2	503+10.06	0.00	734.91
N. End N. Appr. Pvmt.	503+20.06	0.00	734.96

STAGE CONSTRUCTION LINE

Location	Station	Offset	Theoretical Grade Elevations
S. End N. Appr. Pvmt.	502+90.14	4.80	734.62
A2	503+00.17	4.91	734.66
B2	503+10.20	4.97	734.71
N. End N. Appr. Pvmt.	503+20.23	5.00	734.76

EAST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
S. End N. Appr. Pvmt.	502+90.42	19.00	734.05
A2	503+00.52	19.00	734.10
B2	503+10.61	19.00	734.15
N. End N. Appr. Pvmt.	503+20.71	19.00	734.20

EAST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
S. End N. Appr. Pvmt.	502+90.61	28.81	733.66
A2	503+00.76	28.92	733.70
B2	503+10.90	28.98	733.75
N. End N. Appr. Pvmt.	503+21.04	29.00	733.80

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH APPROACH TOP OF SLAB ELEVATIONS
STRUCTURE NO. 045-2050
SHEET NO. SB-12 OF SB-28 SHEETS

F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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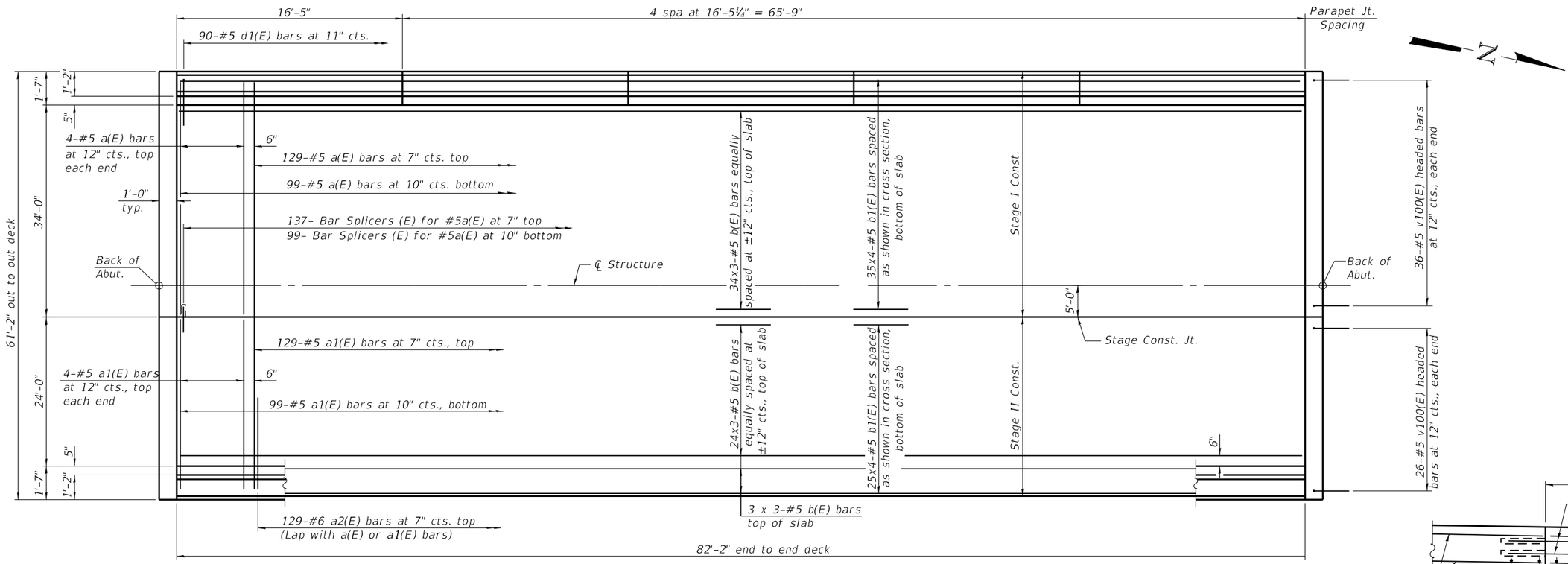
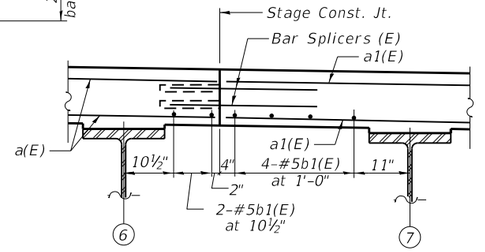
	ILLINOIS	FED. AID PROJECT		



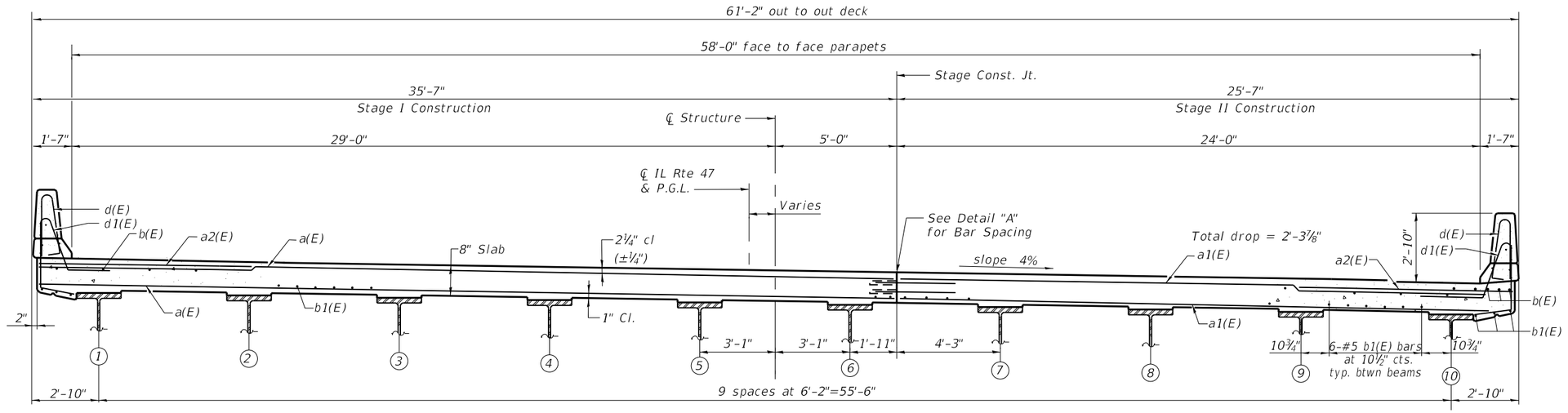
PLAN



DETAIL "A"

MINIMUM BAR LAP

#5 bar = 3'-6"



CROSS SECTION

(Looking North)

Notes:
See Sheet SB-14 of SB-28 for Superstructure Details and Bill of Material. Bars indicated thus 24 x 3-#5 etc. indicates 24 lines of bars with 3 lengths per line.

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MILHOUSE

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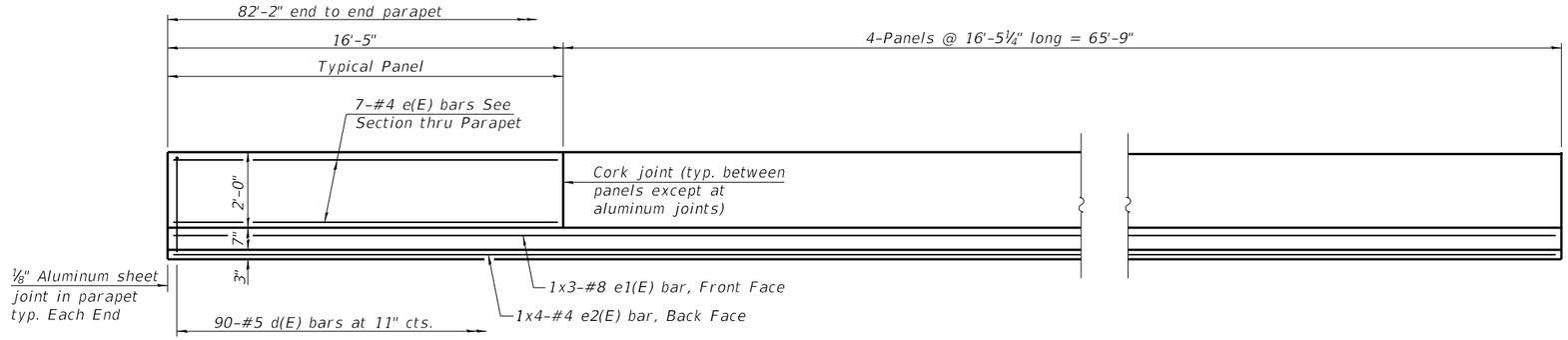
PLOT DATE = 1/28/2019	CHECKED - LAS	REVISED -	

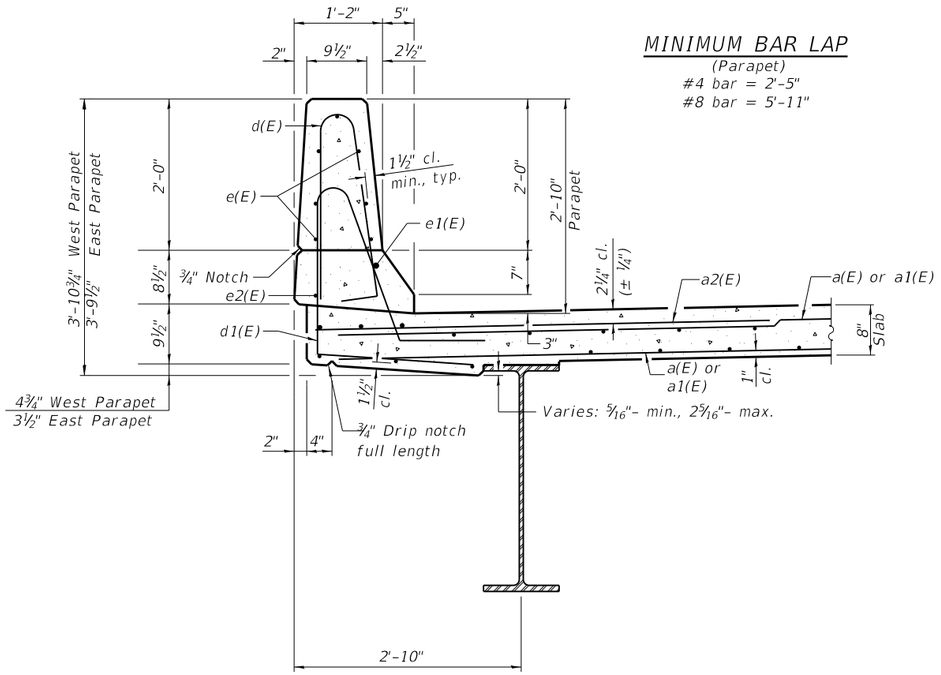
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE
STRUCTURE NO. 045-2050
SHEET NO. SB-13 OF SB-28 SHEETS

F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	107N-4	KANE	288	198
		CONTRACT NO. 60T21		
	ILLINOIS FED. AID PROJECT			



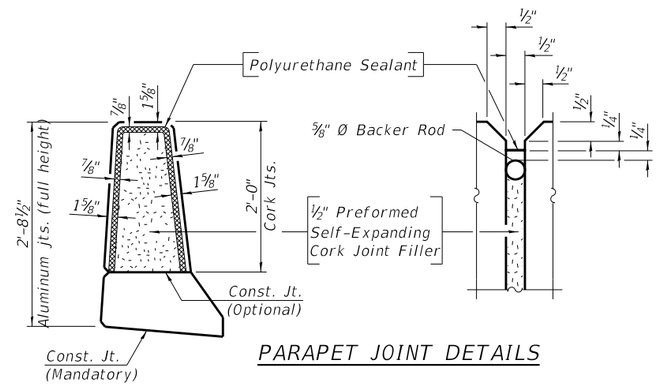
INSIDE ELEVATION OF PARAPET



MINIMUM BAR LAP

(Parapet)
#4 bar = 2'-5"
#8 bar = 5'-11"

SECTION THRU PARAPET



PARAPET JOINT DETAILS

Notes:

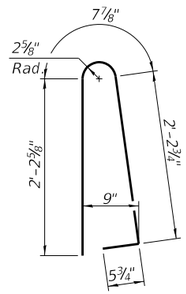
The ⅛" Aluminum sheet shall be ASTM B 209 alloy 3003-H14 and coated to minimize reaction with wet concrete. Cost included with Concrete Superstructure.

The Polyurethane Sealant shall be according to Article 1050.04 of the Std. Spec. and the color shall be gray.

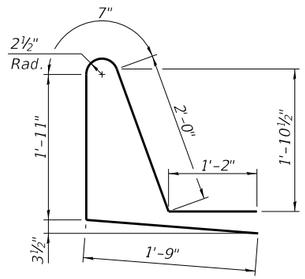
Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated.

SUPERSTRUCTURE BILL OF MATERIAL

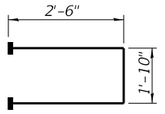
Bar	No.	Size	Length	Shape
a(E)	236	#5	34'-11"	
a1(E)	236	#5	24'-11"	
a2(E)	258	#6	6'-6"	
b(E)	192	#5	29'-8"	
b1(E)	240	#5	23'-1"	
d(E)	180	#5	5'-7"	
d1(E)	180	#5	7'-5"	
e(E)	70	#4	16'-1"	
e1(E)	6	#8	31'-3"	
e2(E)	8	#4	22'-4"	
m10(E)	8	#6	35'-3"	
m11(E)	48	#6	5'-9"	
m12(E)	12	#6	2'-5"	
m13(E)	60	#5	4'-0"	
m14(E)	8	#6	25'-3"	
m15(E)	6	#6	1'-6"	
m16(E)	6	#6	3'-10"	
s10(E)	120	#5	6'-10"	
s11(E)	120	#5	9'-2"	
v100(E)	124	#5	3'-1"	
Reinforcement Bars, Epoxy Coated		Lbs.	36,670	
Concrete Superstructure		Cu. Yd.	189.0	
Bridge Deck Grooving		Sq. Yd.	511	



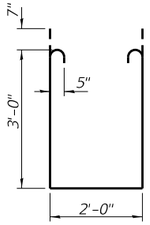
BAR d(E)



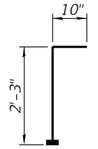
BAR d1(E)



BAR s10(E)
(Headed)



BAR s11(E)



BAR v100(E)
(Headed)

FILE NAME = P:\2015\0958 IDOT Dist IL Route 47 at Main S of Elburn (PTB 171-04)\04-CADD\01 CADD Sheets\01607121-SB-14 Superstructure Details.dgn

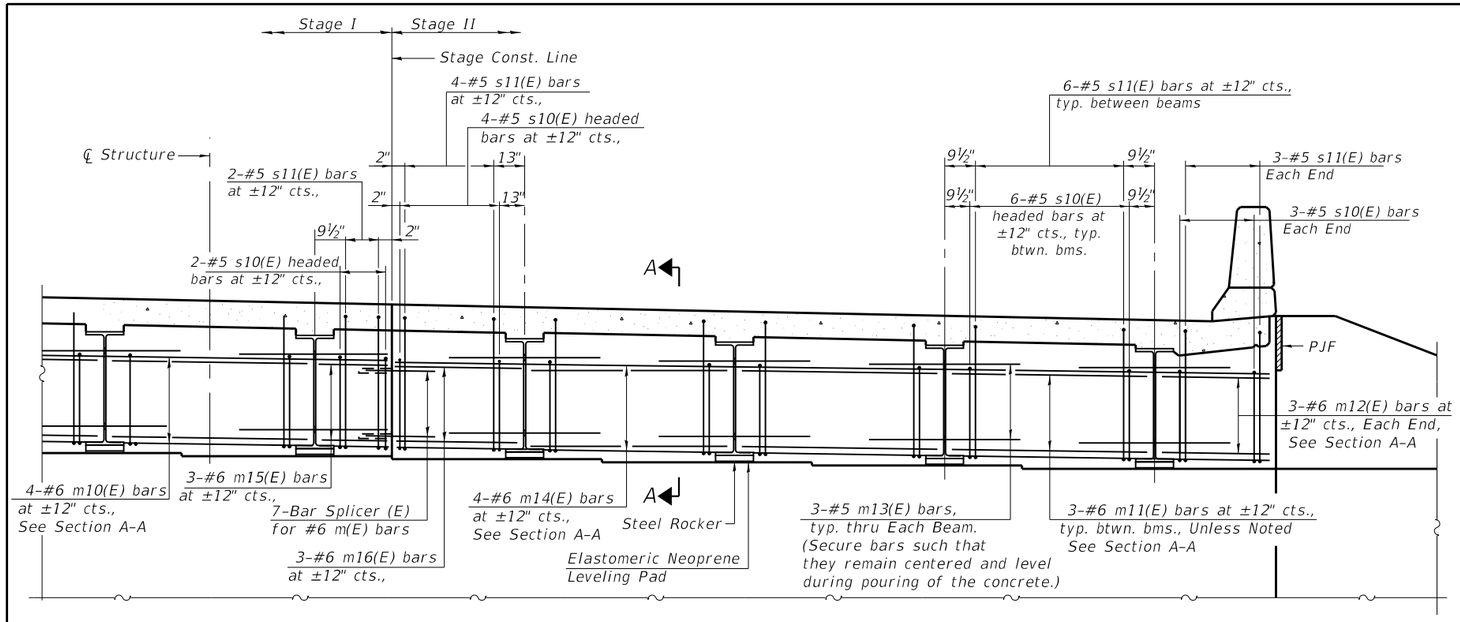
HILHOUSE	USER NAME = mlopez2	DESIGNED - LAS	REVISED -
		CHECKED - DAZ	REVISED -
	PLOT SCALE = 02.0000 '' / in.	DRAWN - TCS	REVISED -
	PLOT DATE = 1/28/2019	CHECKED - LAS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

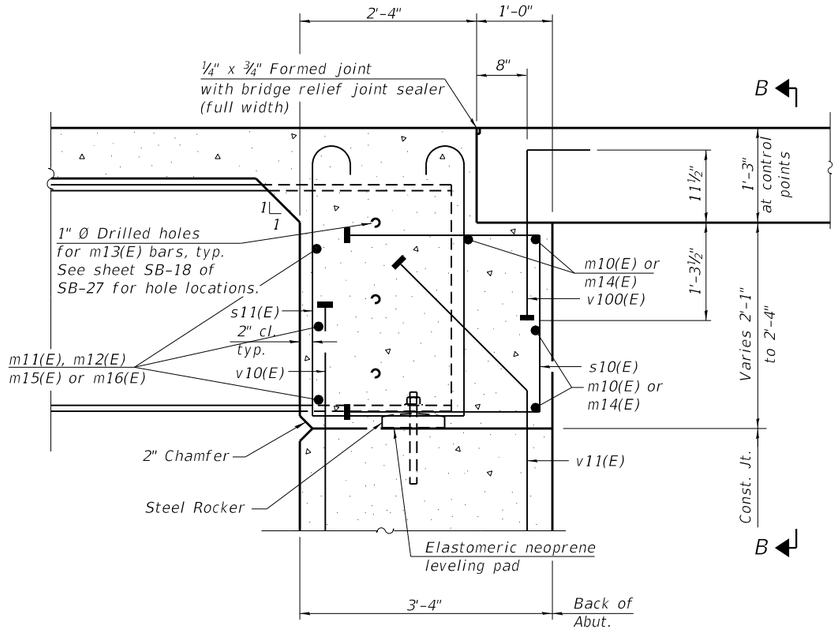
SUPERSTRUCTURE DETAILS

SHEET NO. SB-14 OF SB-28 SHEETS

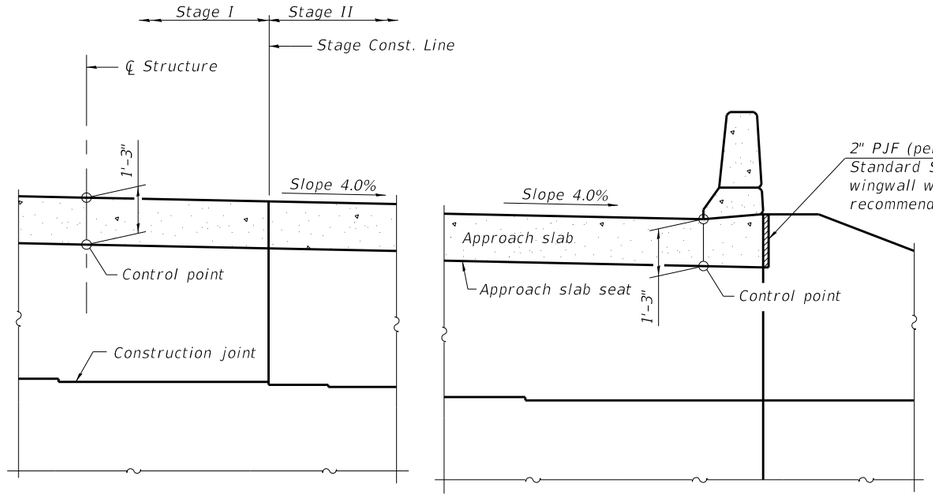
F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	107N-4	KANE	288	199
		CONTRACT NO. 60T21		
		ILLINOIS FED. AID PROJECT		



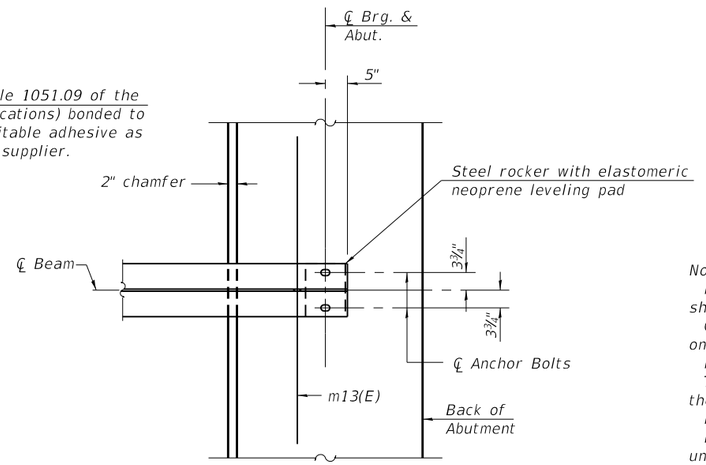
DIAPHRAGM AT ABUTMENT



SECTION A-A



SECTION B-B



PLAN AT ABUTMENT
(Showing bottom flange of beam)

Notes:
Reinforcement bars in diaphragm are billed with superstructure on sheet SB-14 of SB-27.
Concrete in diaphragm is included with Concrete Superstructure on sheet SB-14 of SB-27.
For details of bars s10(E), s11(E) and v100(E) see sheet SB-14 of SB-27.
The approach slab seat shall have a constant slope determined from the control points shown.
For bearing details see sheet SB-18 of SB-27.
Beams shall be braced for stability during erection and remain braced until deck is poured and cured.

FILE NAME = P:\2015\0958 IDOT Dist IL Route 47 at Main S of Elburn (PTB 171-041)\04-CADD\01 CADD Sheets\D160721-SB-15-Diaphragm Details.dgn

HILLHOUSE	USER NAME = mlopez2	DESIGNED - LAS	REVISED -
		CHECKED - DAZ	REVISED -
	PLOT SCALE = 2.6655 '/ in.	DRAWN - TCS	REVISED -
	PLOT DATE = 1/28/2019	CHECKED - LAS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DIAPHRAGM DETAILS
STRUCTURE NO. 045-2050
SHEET NO. SB-15 OF SB-28 SHEETS

F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	107N-4	KANE	288	200
		CONTRACT NO. 60T21		
	ILLINOIS FED. AID PROJECT			