07-29-2016 LETTING ITEM 086

+2=67

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-00136-00-RR	COOK	65	1
	ILLINOIS	CONTRACT NO. 61C74		

SEE SHEET 2 FOR SHEET INDEX

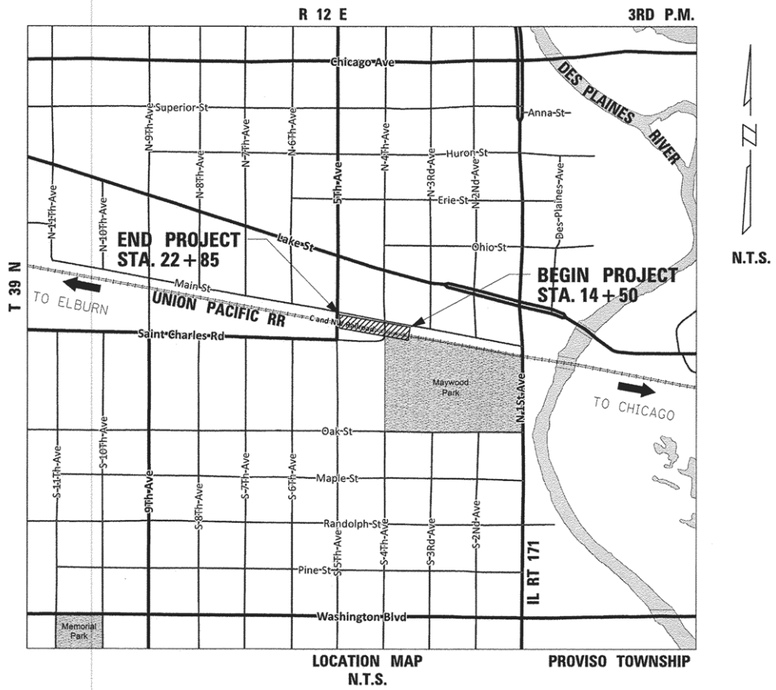
SEE SHEET 2 FOR LIST OF STATE STANDARDS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

MAIN STREET – MAYWOOD COMMUTER STATION
5TH AVENUE TO 4TH AVENUE
SECTION 13–00136–00–RR
PROJECT NO. CMM–4003 (277)
VILLAGE OF MAYWOOD
COOK COUNTY
JOB NO.: C–91–211–14

LOCATION OF SECTION INDICATED THUS: – ■ –



LOCATION MAP
N.T.S.

PROVISO TOWNSHIP

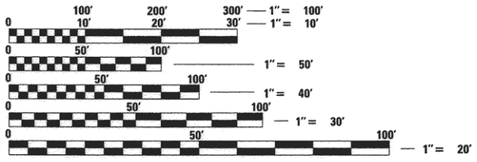
N.T.S.

VILLAGE OF MAYWOOD
40 MADISON STREET
MAYWOOD, IL 60153

DESIGN DESIGNATION AND TRAFFIC DATA

5TH AVENUE (FAU 2742)
FUNCTIONAL CLASSIFICATION: MAJOR COLLECTOR
POSTED SPEED = 25 MPH
EXISTING ADT = 8200 (2010)

MAIN STREET
FUNCTIONAL CLASSIFICATION: LOCAL ROAD
POSTED SPEED = 25 MPH
EXISTING ADT = 900 (2009)



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

CONTRACT NO. 61C74

CHRISTOPHER B. BURKE ENGINEERING, LTD.
9575 W. Higgins Road, Suite 600
Rosemont, Illinois 60018
(847) 823-0500

FGM ARCHITECTS
1211 West 22nd Street, Suite 705
OAK BROOK, IL 60523

GROSS LENGTH = 835.00 FT. = 0.158 MILE
NET LENGTH = 835.00 FT. = 0.158 MILE

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1–800–892–0123
OR 811

MARTIN L. MICHALOWICZ
062-059502
LICENSED PROFESSIONAL ENGINEER OF ILLINOIS

January 25, 2016
MARTIN MICHALOWICZ
ILLINOIS REGISTRATION No. 062-059502
EXPIRATION DATE: 11/30/17

STATE OF ILLINOIS
MAJID MOBASSERI
081-005058
CHAMPAIGN, ILLINOIS
LICENSED STRUCTURAL ENGINEER

1/25/16, 2016
MAJID MOBASSERI
ILLINOIS REGISTRATION No. 081-005058 STRUCTURAL ENGINEER
EXPIRATION DATE: 11/30/16
APPLIES TO SHEETS 23 – 30

STATE OF ILLINOIS
ANDREW JOHN JASEK
001-019548
LICENSED ARCHITECT

1/25/16, 2016
ANDREW JOHN JASEK
ILLINOIS REGISTRATION No. 001-019548 ARCHITECT
EXPIRATION DATE:
APPLIES TO SHEETS 31 – 40

JOHN P. CARUSO
062-048356
REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS

1/25/16, 2016
JOHN P. CARUSO
ILLINOIS REGISTRATION No. 062-048356
EXPIRATION DATE: 11/30/17
APPLIES TO SHEETS 41 – 58

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

APPROVED 1-26-2016 20
Edward Pankau Mayor
VILLAGE OF MAYWOOD

PASSED 5-26 2016
DISTRICT 1 ENGINEER OF LOCAL ROADS AND STREETS

RELEASING FOR BID BASED ON LIMITED REVIEW 6/1 2016
DEPUTY DIRECTOR OF HIGHWAYS, REGION 1 ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

FEDERAL AID PROGRAM ENGINEER: FAWAD AQUEEL, P.E., P.T.O.E (847) 705–4021, SCHAUMBURG, IL

N:\MAYWOOD\13\00136\Maywood-UP\13234D001.DGN

GENERAL NOTES

1. ALL DIMENSIONS SHOWN ON THE PLANS ARE TO THE EDGE OF PAVEMENT, UNLESS OTHERWISE SPECIFIED.

2. WHEN EXISTING DRAINAGE FACILITIES ARE DISTURBED, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY OUTLETS AND CONNECTIONS FOR ALL PRIVATE AND PUBLIC DRAINS, SEWERS OR CATCH BASINS. HE SHALL PROVIDE FACILITIES TO TAKE IN ALL STORM WATER WHICH SHALL BE RECEIVED BY THESE DRAINS AND SEWERS AND DISCHARGE THE SAME. HE SHALL PROVIDE AND MAINTAIN AN EFFICIENT PUMPING PLANT, IF NECESSARY, AND A TEMPORARY OUTLET, AND BE PREPARED AT ALL TIMES TO DISPOSE OF THE WATER FROM TEMPORARY CONNECTIONS UNTIL SUCH TIME AS THE PAVEMENT CONNECTIONS WITH THE SEWERS ARE BUILT AND IN SERVICE. ALL PUMPING SHALL ENTER A SETTLING BASIN SYSTEM , APPROVED BY THE ENGINEER, BEFORE PASSING INTO THE EXISTING DRAINAGE SYSTEM. THIS WORK SHALL NOT BE PAID FOR DIRECTLY, BUT WILL BE INCLUDED IN THE COST OF THE ASSOCIATED DRAINAGE ITEMS.

3. THE CONTRACTOR SHALL PROTECT EXISTING AND NEW UTILITIES WHEN CONSIDERED NECESSARY BY THE ENGINEER, BY METHODS APPROVED BY THE ENGINEER, AND HE SHALL BRACE AND SUPPORT THE UTILITIES PROPERLY TO PREVENT SETTLEMENT, DISPLACEMENT OR CHANGE TO THE UTILITIES. THE PROTECTION OF THE UTILITIES AS SPECIFIED HEREIN WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE ITEM BEING INSTALLED.

4. THE CONTRACTOR SHALL MAINTAIN THE SURFACE DRAINAGE OF THE ROAD/SITE DURING CONSTRUCTION OF THIS PROJECT TO IDOT AND LOCAL STANDARD.

5. THE UTILITY COMPANIES OR THEIR CONTRACTORS WILL PERFORM THE REQUIRED ADJUSTMENT TO THEIR UTILITIES WITHIN THE TIMEFRAME SPECIFIED IN THIS CONTRACT.

6. VILLAGE DOES NOT GUARANTEE THE COMPLETENESS OR ACCURACY OF THE INFORMATION SHOWN ON THE PLANS REGARDING UTILITIES, EITHER PUBLIC OR PRIVATE, SUCH AS SEWERS, MANHOLES, CATCH BASINS, GAS AND WATER MAINS, TELEPHONE AND ELECTRICAL DUCT LINES AND SIMILAR STRUCTURES. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL UTILITIES THAT MAY INTERFERE WITH CONSTRUCTION OPERATIONS, AND SHALL REPORT TO THE ENGINEER ANY OMISSIONS AND DIFFERENCES FROM THE LOCATIONS SHOWN ON THE PLANS.

7. 48 HOURS BEFORE STARTING EXCAVATION, THE CONTRACTOR WILL CALL J.U.L.I.E. TO HAVE THE LOCATION OF EXISTING UNDERGROUND UTILITIES STAKED. 48 HOURS BEFORE ANY EXCAVATION IN OR ADJACENT TO UPRR RIGHT-OF-WAY CALL UPRR AT 312-496-4738, 312-496-4750 AND 312-496-4728.

8. PRIOR TO STARTING CONSTRUCTION AN INSPECTION OF EXISTING MANHOLES AND CATCH BASINS WILL BE MADE BY THE VILLAGE AND THE CONTRACTOR TO DETERMINE THE AMOUNT OF EXISTING DEBRIS IN THESE STRUCTURES. UPON COMPLETION OF THE CONTRACT, THE CONTRACTOR SHALL CLEAN ONLY THOSE STRUCTURES WHERE DEBRIS HAS BEEN ADDED DUE TO CONSTRUCTION. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF MOBILIZATION.

9. ALL LIVE DRAINS SHALL BE RECONNECTED TO THE PROPOSED SEWER. THIS WORK SHALL BE IN ACCORDANCE WITH SECTION 550 OF THE STANDARD SPECIFICATIONS (LATEST EDITION). PAYMENT SHALL BE MADE AT THE CONTRACT UNIT PRICE PER LINEAL FOOT OF THE SIZE AND TYPE OF SEWERS REQUIRED.

10. THE CONTRACTOR SHALL CHECK THE ELEVATIONS AT THE PROPERTY LINE BEFORE SETTING THE TOP OF CURB ELEVATIONS AND, IF NECESSARY, SHALL ALTER THE CURB EXPOSURE AND/OR GUTTER ELEVATION TO MEET ADJACENT PROPERTY LINE ELEVATIONS TO THE SATISFACTION OF THE ENGINEER.

11. THE CONTRACTOR SHALL TAKE ALL NECESSARY SAFETY PRECAUTIONS TO PROTECT ABUTTING PROPERTY, UTILITIES, PEDESTRIANS AND VEHICULAR TRAFFIC.

12. THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN AND PAY IF APPLICABLE FOR ALL NECESSARY PERMITS PRIOR TO COMMENCING CONSTRUCTION.

13. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING FENCES AND GUARDRAILS DURING EXCAVATION AND ANY DAMAGE TO THE FENCES OR GUARDRAIL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL REPLACE THE DAMAGED FENCE OR GUARDRAIL AT HIS EXPENSE AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.

14. NO EXCAVATION SHALL BE PERMITTED MORE THAN ONE FOOT (1') FROM THE BACK OF PROPOSED CURB AND GUTTER WHERE TREE IS TO REMAIN. HAND EXCAVATION SHOULD BE PERFORMED IF ROOTS ARE PRESENT AND ALL WORK REQUIRED TO PRESERVE TREE ROOTS SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

15. ANY REFERENCE TO "STANDARD SPECIFICATIONS" THROUGHOUT THE PLANS OR SPECIAL PROVISIONS SHALL BE INTERPRETED TO BE THE ILLINOIS DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION," ADOPTED APRIL 1, 2016.

16. WHENEVER A PORTION OF THE EXISTING SIDEWALK SHALL BE REMOVED, THE CONTRACTOR SHALL SAWCUT AND REMOVE THE SIDEWALK AS DIRECTED BY THE ENGINEER. THE SAWCUTTING SHALL BE INCLUDED IN THE COST OF SIDEWALK REMOVAL. A FULL DEPTH SAW CUT SHALL BE USED.

17. ONE-HALF INCH (1/2") THICK EXPANSION JOINTS SHALL BE PLACED IN THE SIDEWALK, AND AT ALL STRUCTURES SUCH AS LIGHT STANDARDS, TRAFFIC LIGHT STANDARDS AND MANHOLES WHICH EXTEND THROUGH THE SIDEWALK.

18. THE CONTRACTOR SHALL MAINTAIN COMPLETE ACCESS TO ALL BUILDINGS AND PROPERTY ADJACENT TO THE PROPOSED IMPROVEMENT.

19. IN LOCATIONS WHERE THE MAIN SEWER IS NOT BEING REPLACED AND THE EXISTING DRAINAGE FACILITIES ARE DISTURBED OR DAMAGED DURING CONSTRUCTION BY THE CONTRACTOR , IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO RESTORE AND REPLACE THE DAMAGED FACILITIES AT HIS EXPENSE TO THE SATISFACTION OF THE ENGINEER.

20. THE CONTRACTOR WILL BE REQUIRED TO DISPOSE OF ALL MATERIALS INCLUDING THOSE GENERATED BY UPRR FORCES EXCAVATED OR REMOVED DUE TO UPRR CONSTRUCTION OPERATIONS. THIS WILL BE PAID FOR AS EARTH EXCAVATION. NO PAYMENT WILL BE MADE FOR HAULING OR TRUCKING THE MATERIALS.

21. THE CONTRACTOR IS RESPONSIBLE FOR THE COST OF REPLACEMENT OF ANY SURVEY MONUMENT DAMAGED OR DESTROYED DURING CONSTRUCTION.

22. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR SEWER AND WATER MAIN CONSTRUCTION IN ILLINOIS", LATEST EDITION.

23. SIDEWALK ACCESSIBILITY RAMPS SHALL NOT BE CONSTRUCTED DIRECTLY OVER EXISTING OR PROPOSED DRAINAGE STRUCTURES.

24. ALL DRAIN TILES DISCOVERED DURING CONSTRUCTION SHALL BE TIED INTO THE PROPOSED STORM SEWER WITH A STRUCTURE. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT INCLUDED IN THE COST OF THE STRUCTURE WORK.

25. THE CONTRACTOR SHALL PROTECT ALL SPRINKLER HEADS.

26. THE CONTRACTOR SHALL COORDINATE WITH METRA, THE VILLAGE OF MAYWOOD AND THE UNION PACIFIC RAILROAD COMPANY REGARDING PHASING OF WORK AND ALTERNATE ROUTES WITH SIGNAGE TO MINIMIZE THE IMPACT TO THE COMMUTERS DURING CONSTRUCTION.

27. UPRR FLAGMAN IS REQUIRED WHEN MEN OR EQUIPMENT ARE WITHIN 25' OF THE RAILROAD TRACKS. WORK HOURS ARE MON. - FRI. FROM 9AM TO 3:30PM CONTACT KANDICE MILLER 312-496-4738 OR ANESHIA LYMON-SMITH 312-496-4750 FOR FLAGGING. PROVIDE 72 HOUR ADVANCE NOTICE FOR A FLAGGER REQUEST, AND A 24 HOUR NOTICE FOR CANCELLATION.

28. THE CONTRACTOR SHALL COORDINATE HIS MATERIAL SUPPLY, DEMOLITION, DEBRIS REMOVAL AND INSTALLATION WORK WITH RAILROAD EMPLOYEES IN A TIMELY FASHION OR WITHIN 48 HOURS OF RAILROADS REQUEST SO NO CONSTRUCTION WORK IS DELAYED.

29. ADA PARKING LOCATED IN SHARED LOT SHALL ACCOMMODATE COMMUTER ADA PARKING AND NOT BE SIGNED AS AN HOURLY MAX PARKING.

30. CONTRACTOR MUST GO THROUGH UNION PACIFIC SATEFY TRAINING THROUGH CONTRACTOR ORIENTATION, AS WELL AS E-RAILSAFE.

31. CONTRACTOR MUST NOTIFY METRA AND UNION PACIFIC RAILROAD 10 DAYS IN ADVANCE OF STARTING WORK.

LIST OF HIGHWAY STANDARDS

000001-06	STANDARD SYMBOLS, ABBREV. & PATTERNS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
424026-01	ENTRANCE/ALLEY PEDESTRIAN CROSSINGS
424031-01	MEDIAN PEDESTRIAN CROSSINGS
602001-02	CATCH BASIN TYPE A
602401-03	MANHOLE TYPE A
604051-04	FRAME & GRATE TYPE 11
606001-06	CONCRETE CURB TYPE B AND COMINBATION CONCRETE CURB AND GUTTER
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' TO 24' FROM PAVEMENT EDGE
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERTIONS - DAY ONLY
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-05	TRAFFIC CONTROL DEVICES
814001-03	HANDHOLES

DISTRICT 1 DETAILS

BD-22	PAVEMENT PATCHING FOR HMA SURFACE PAVEMENT
TC-10	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS

SHEET INDEX

VILLAGE OF MAYWOOD
40 MADISON STREET
MAYWOOD, IL 60153

USER NAME = mmicholowicz	DESIGNED - MBT	REVISED -
	DRAWN - MBT	REVISED -
PLOT SCALE = 10'	CHECKED - MEK	REVISED -
PLOT DATE = 1/22/2016	DATE - 01/25/16	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAYWOOD METRA STATION
GENERAL NOTES

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-00136-00-RR	COOK	65	2
		CONTRACT NO. 61C74		
	ILLINOIS FED. AID PROJECT			

FILE NAME = N:\MAYWOOD\13012B\Maywood-UPW\1234G002.DGN

SUMMARY OF QUANTITIES

	SUMMARY OF QUANTITIES				CONSTRUCTION TYPE CODE					
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0004 ROADWAY	0021 SAFETY	0031 LANDSCAPING	0042 TRAINEES	0043 UTILITIES	0044 OTHER
20200100	EARTH EXCAVATION	CU YD	405	405					
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	200	200					
20400800	FURNISHED EXCAVATION	CY YD	550	550					
20700220	POROUS GRANULAR EMBANKMENT	CU YD	440	440					
20800150	TRENCH BACKFILL	CU YD	125					125	
25000300	SEEDING, CLASS 3	ACRE	0.25			0.25			
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	5.5			5.5			
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	5.5			5.5			
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	5.5			5.5			
25200110	SODDING, SALT TOLERANT	SQ YD	275			275			
25200200	SUPPLEMENTAL WATERING	UNIT	5			5			
28000510	INLET FILTERS	EACH	3	3					
35101582	AGGREGATE BASE COURSE, TYPE B 2"	SQ YD	445	445					
35102100	AGGREGATE BASE COURSE, TYPE B 9"	SQ YD	585	585					
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	6315	6315					
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	235	235					
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	410	410					
42000100	PORTLAND CEMENT CONCRETE PAVEMENT 6"	SQ YD	260	260					
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	3995	3995					
42400800	DETECTABLE WARNINGS	SQ FT	9		9				
44000160	HOT-MIX ASPHALT SURFACE REMOVAL, 2 3/4"	SQ YD	1140	1140					
44000173	HOT-MIX ASPHALT SURFACE REMOVAL, 6"	SQ YD	1465	1465					
44000400	GUTTER REMOVAL	FOOT	330	330					
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	925	925					
44000600	SIDEWALK REMOVAL	SQ FT	2096	2096					
44201717	CLASS D PATCHES, TYPE II, 6 INCH	SQ YD	170	170					
50200100	STRUCTURE EXCAVATION	CU YD	1250	1250					
50300100	FLOOR DRAINS	EACH	3	3					
50300225	CONCRETE STRUCTURES	CU YD	392	196					196
50300285	FORM LINER TEXTURED SURFACE	SQ FT	1310						1310
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	58800	29400					29400
55080040	STORM SEWERS, CLASS B, TYPE 1 10"	FOOT	2					2	
55100400	STORM SEWER REMOVAL 10"	FOOT	13					13	
Δ 56100035	DUCTILE IRON WATER MAIN TEE, 10" X 8"	EACH	1					1	
Δ 56100700	WATER MAIN 8"	FOOT	10					10	
Δ 56100800	WATER MAIN 10"	FOOT	300					300	
Δ 56109410	DUCTILE IRON WATER MAIN FITTINGS 10" 22.50 DEGREE BEND	EACH	4					4	
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	85					85	
60100925	PIPE DRAINS 8"	FOOT	100					100	
60201105	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11 FRAME AND GRATE	EACH	3					3	
60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	2					2	
60500050	REMOVING CATCH BASINS	EACH	3					3	
60600605	CONCRETE CURB, TYPE B	FOOT	445	445					

	SUMMARY OF QUANTITIES				CONSTRUCTION TYPE CODE					
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0004 ROADWAY	0021 SAFETY	0031 LANDSCAPING	0042 TRAINEES	0043 UTILITIES	0044 OTHER
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	825	825					
60618300	CONCRETE MEDIAN SURFACE, 4 INCH	SQ FT	40	40					
67100100	MOBILIZATION	LSUM	1	1					
70300100	SHORT TERM PAVEMENT MARKING	FOOT	810	810					
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	405	405					
72900100	METAL POST - TYPE A	FOOT	135	135					
Δ 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	18.4	18.4					
Δ 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	740	740					
Δ 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	270	270					
Δ 81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	500					500	
Δ 81028230	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3 1/2" DIA.	FOOT	400					400	
Δ 81028720	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 1" DIA.	FOOT	500					500	
Δ 81028730	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 1 1/4" DIA.	FOOT	200					200	
Δ 81028740	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 1 1/2" DIA.	FOOT	200					200	
Δ 81028750	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 2" DIA.	FOOT	100					100	
Δ 81400730	HANDHOLE, COMPOSITE CONCRETE	EACH	4					4	
Δ 81702120	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 8	FOOT	1500					1500	
Δ 83000198	LIGHT POLE, ALUMINUM, 25 FT. M.H., 10 FT. MAST ARM	EACH	4					4	
Δ 83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	40					40	
Δ *X0322080	BUS SHELTER REMOVE AND RELOCATE	EACH	1	1					
Δ *X0322869	REMOVE TIMBER RETAINING WALL	LSUM	1						1
Δ *X0323444	DECORATIVE STEEL RAILING	FOOT	365						365
Δ *X0325789	INTERPRETIVE SIGNAGE COMPLETE	EACH	21						21
*X0326696	SIGN AND POST	EACH	4	4					
Δ *X0323553	ORNAMENTAL FENCE, WROUGHT IRON	FOOT	353		353				
Δ *X0324582	PLUMBING EQUIPMENT, ACCESSORIES AND RELATED SYSTEMS	LSUM	1						1
Δ *X0327494	MECHANICAL WORK COMPLETE	LSUM	1						1
Δ *X1400094	LUMINAIRE, LED, HORIZONTAL MOUNT, LOW WATTAGE	EACH	4					4	
Δ *X5610651	ABANDON EXISTING WATER MAIN, FILL WITH CLSM	FOOT	295					295	
Δ *X5610750	WATER MAIN LINE STOP 10"	EACH	2					2	
Δ *X5630010	CUT AND CAP EXISTING 10" WATER MAIN	EACH	2					2	
*X5860110	GRANULAR BACKFILL FOR STRUCTURES	CY YD	300	150					150
*X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	LSUM	1		1				
Δ *X8360215	LIGHT POLE FOUNDATION, 24" DIAMETER, OFFSET	FOOT	16					16	
Δ *XX007056	BUILDING	LSUM	1						1
Δ *XX008868	ELECTRICAL SYSTEM COMPLETE	LSUM	1						1
*Z0013798	CONSTRUCTION LAYOUT	LSUM	1		1				
Δ *Z0022800	FENCE REMOVAL	FOOT	322	322					
*Z0026408	TEMPORARY SHEET PILING (SPECIAL)	SQ FT	1660						1660
Δ *Z0044298	PRESSURE CONNECTION TO EXISTING WATER MAIN	EACH	1					1	
*Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	LSUM	1						1
Δ *Z0056900	SANITARY SEWER 8"	FOOT	17					17	
*Z0076600	TRAINEES	HOUR	500				500		
*Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	500				500		

* SPECIAL PROVISION
Δ SPECIALITY ITEMS

VILLAGE OF MAYWOOD
40 MADISON STREET
MAYWOOD, IL 60153

USER NAME = mmichalowicz	DESIGNED - MBT	REVISED -	
	DRAWN - MBT	REVISED -	
PLOT SCALE = 10'	CHECKED - MEK	REVISED -	
PLOT DATE = 2/19/2016	DATE - 01/25/16	REVISED -	

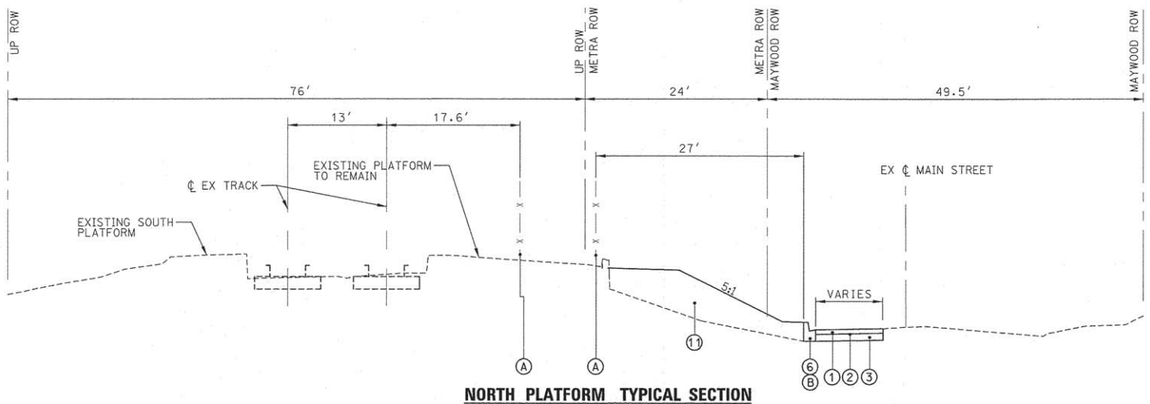
FILE NAME = N:\MAYWOOD\130128\Maywood-UPW\12341003.DGN

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAYWOOD METRA STATION
SUMMARY OF QUANTITIES

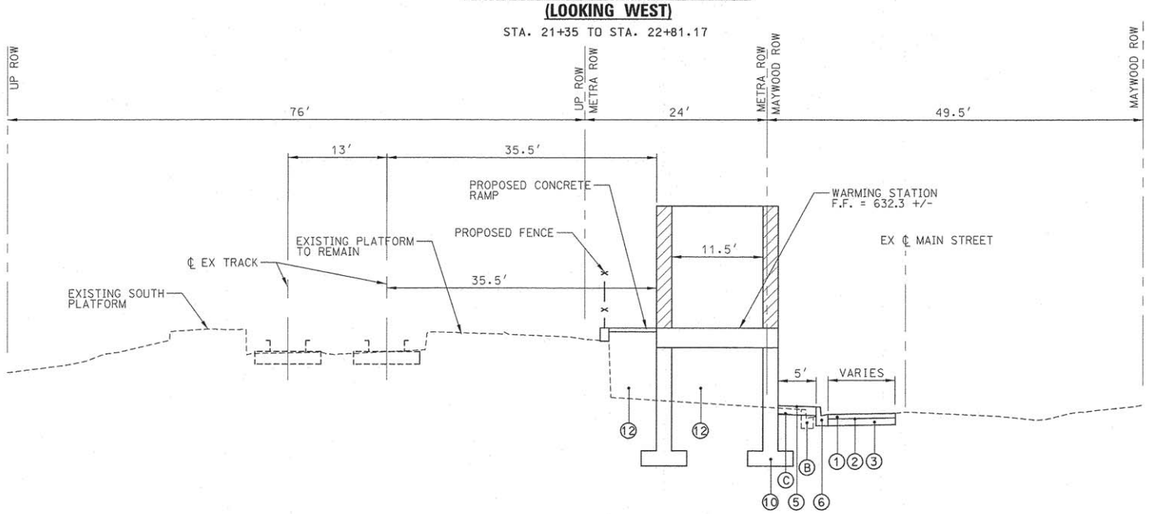
SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-00136-00-RR	COOK	65	3
		CONTRACT NO. 61C74		
	ILLINOIS FED. AID PROJECT			



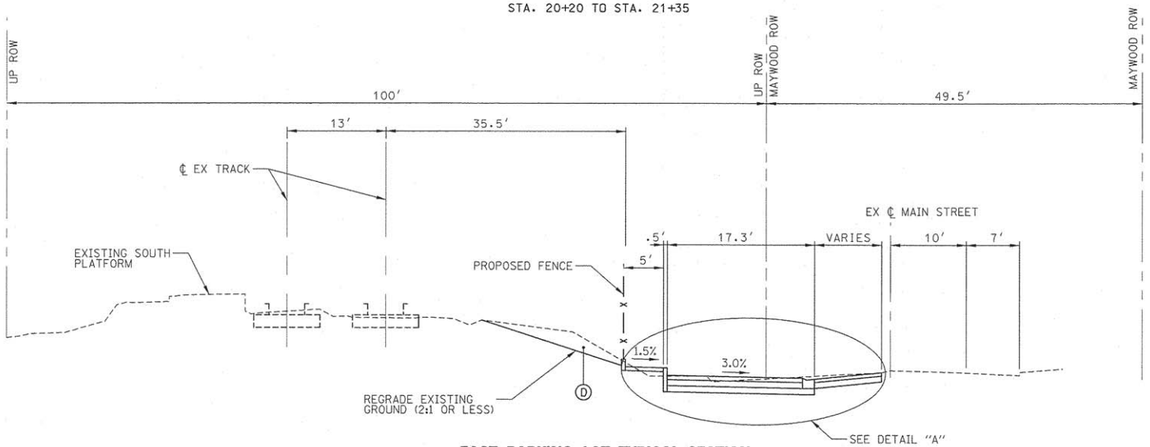
NORTH PLATFORM TYPICAL SECTION
(LOOKING WEST)

STA. 21+35 TO STA. 22+81.17



WARMING STATION TYPICAL SECTION
(LOOKING WEST)

STA. 20+20 TO STA. 21+35



EAST PARKING LOT TYPICAL SECTION
(LOOKING WEST)

STA. 14+55 TO STA. 20+20

HOT-MIX ASPHALT MIXTURE REQUIREMENTS:

	AIR VOIDS @Ndes
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 - 2 1/2"	4% @ 50 Gyr.
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50 - 3 1/2"	4% @ 50 Gyr.
CLASS D PATCHES, TYPE II - 6"	4% @ 70 Gyr.

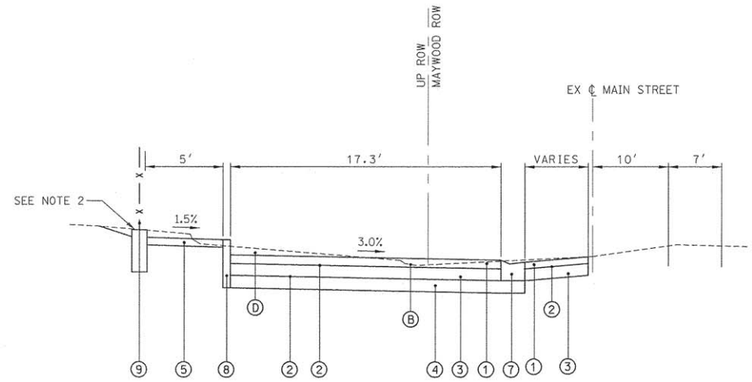
HMA NOTES:

1. THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURES IS 112 LB/SQ YD/IN.
2. THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64 -22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.
3. FOR HMA FULL DEPTH "AC TYPE" SEE SPECIAL PROVISIONS.
4. FOR RECYCLED MATERIALS SEE SPECIAL PROVISIONS.
5. PATCH TO BE USED IF NEED BE.

LEGEND:

- (A) EXISTING FENCE
- (B) CURB AND GUTTER REMOVAL
- (C) SIDEWALK REMOVAL
- (D) EARTH EXCAVATION

- (1) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 - 2 1/2"
- (2) BITUMINOUS MATERIAL (TACK COAT)
- (3) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50 - 3 1/2"
- (4) 9" AGGREGATE SUBGRADE
- (5) 5"- PCC SIDEWALK ON 2" COMPACTED AGGREGATE
- (6) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
- (7) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12, DEPRESSED
- (8) CONCRETE CURB, TYPE B
- (9) PROPOSED ORNAMENTAL FENCE, WROUGHT IRON
- (10) RETAINING WALL
- (11) FURNISHED EXCAVATION
- (12) POROUS GRANULAR EMBANKMENT



DETAIL "A"
PARKING SECTION

NOTE:

1. PROPOSED TRACK WILL BE CONSTRUCTED AS PART OF METRA/UPRR THIRD MAIN LINE TRACK PROJECT. SHOWN HERE FOR HORIZONTAL DISTANCE PURPOSES ONLY. SEE ULTIMATE TYPICAL SECTIONS SHEETS FOR DETAILS.
2. AT A MINIMUM THE TOP OF WALL IS BASED ON FUTURE UPRR THIRD TRACK TYPICAL SECTION AT 15.5' OFFSET WITH AN ADDITIONAL THREE (3) INCHES ADDED TO CREATE A LIP.

VILLAGE OF MAYWOOD
40 MADISON STREET
MAYWOOD, IL 60153

USER NAME = mmicholowicz	DESIGNED - MBT	REVISED -	
	DRAWN - MBT	REVISED -	
PLOT SCALE = 10'	CHECKED - MEK	REVISED -	
PLOT DATE = 2/19/2016	DATE - 01/25/16	REVISED -	

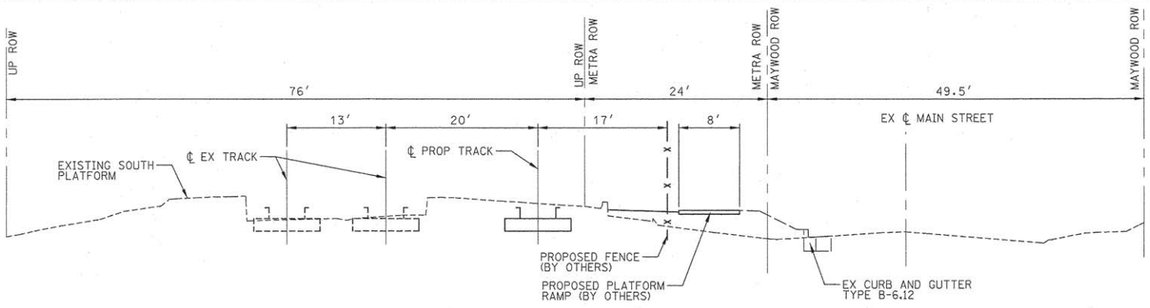
FILE NAME = N:\MAYWOOD\130128\Maywood-UPW\1234C301.DGN

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

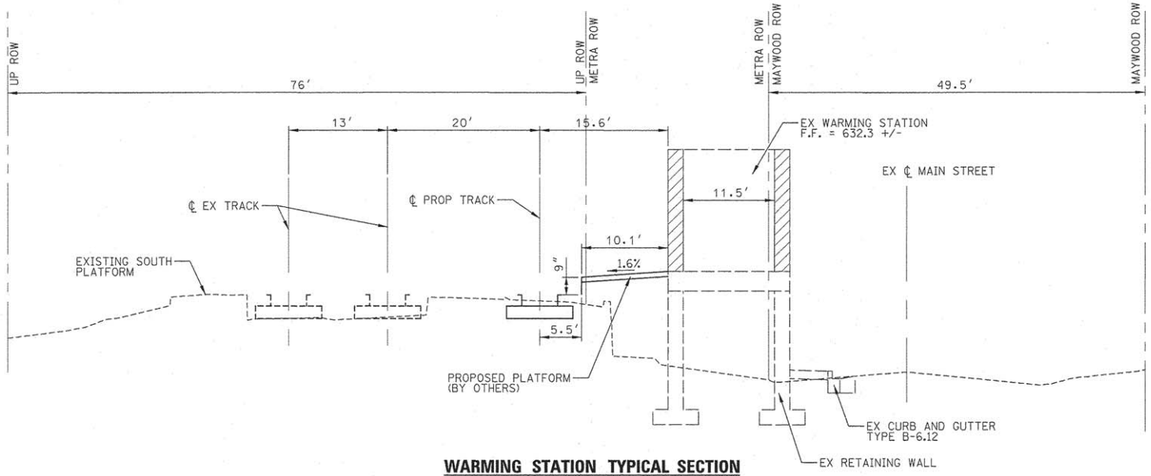
MAYWOOD METRA STATION
INTERIM
TYPICAL SECTIONS

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

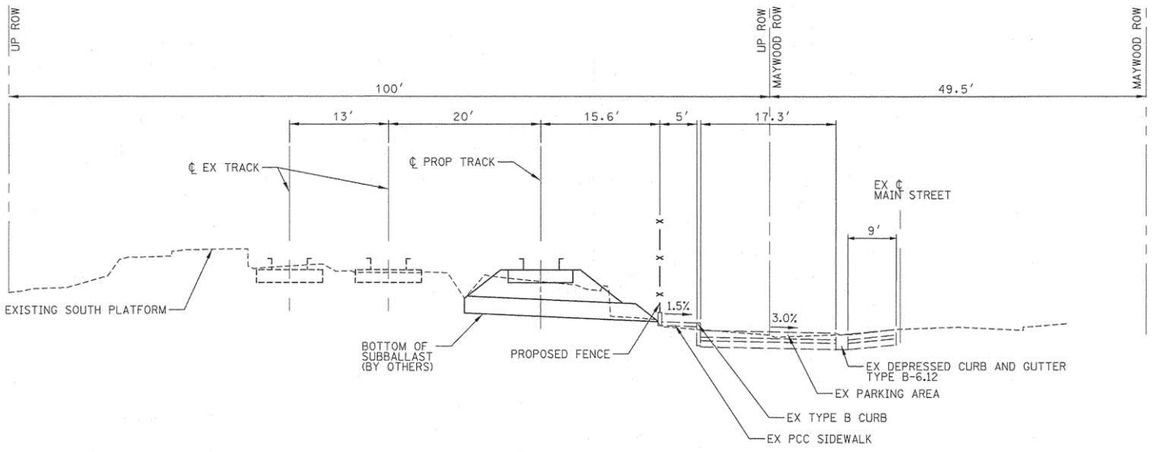
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-00136-00-RR	COOK	65	4
		CONTRACT NO. 61C74		
	ILLINOIS FED. AID PROJECT			



NORTH PLATFORM TYPICAL SECTION
(LOOKING WEST)
STA. 21+35 TO STA. 22+75



WARMING STATION TYPICAL SECTION
(LOOKING WEST)
STA. 20+20 TO STA. 21+35



EAST PARKING LOT TYPICAL SECTION
(LOOKING WEST)
STA. 14+55 TO STA. 20+20

LEGEND:

① PROPOSED FENCE
② PROPOSED PLATFORM

FOR INFORMATION PURPOSES ONLY

VILLAGE OF MAYWOOD 40 MADISON STREET MAYWOOD, IL 60153	USER NAME = mmichalowicz	DESIGNED - MBT	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAYWOOD METRA STATION ULTIMATE TYPICAL SECTIONS
		DRAWN - MBT	REVISED -		
	PLOT SCALE = 10'	CHECKED - MEK	REVISED -		
	PLOT DATE = 1/22/2016	DATE - 01/25/16	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-00136-00-RR	COOK	65	5
		CONTRACT NO. 61C74		
	ILLINOIS FED. AID PROJECT			

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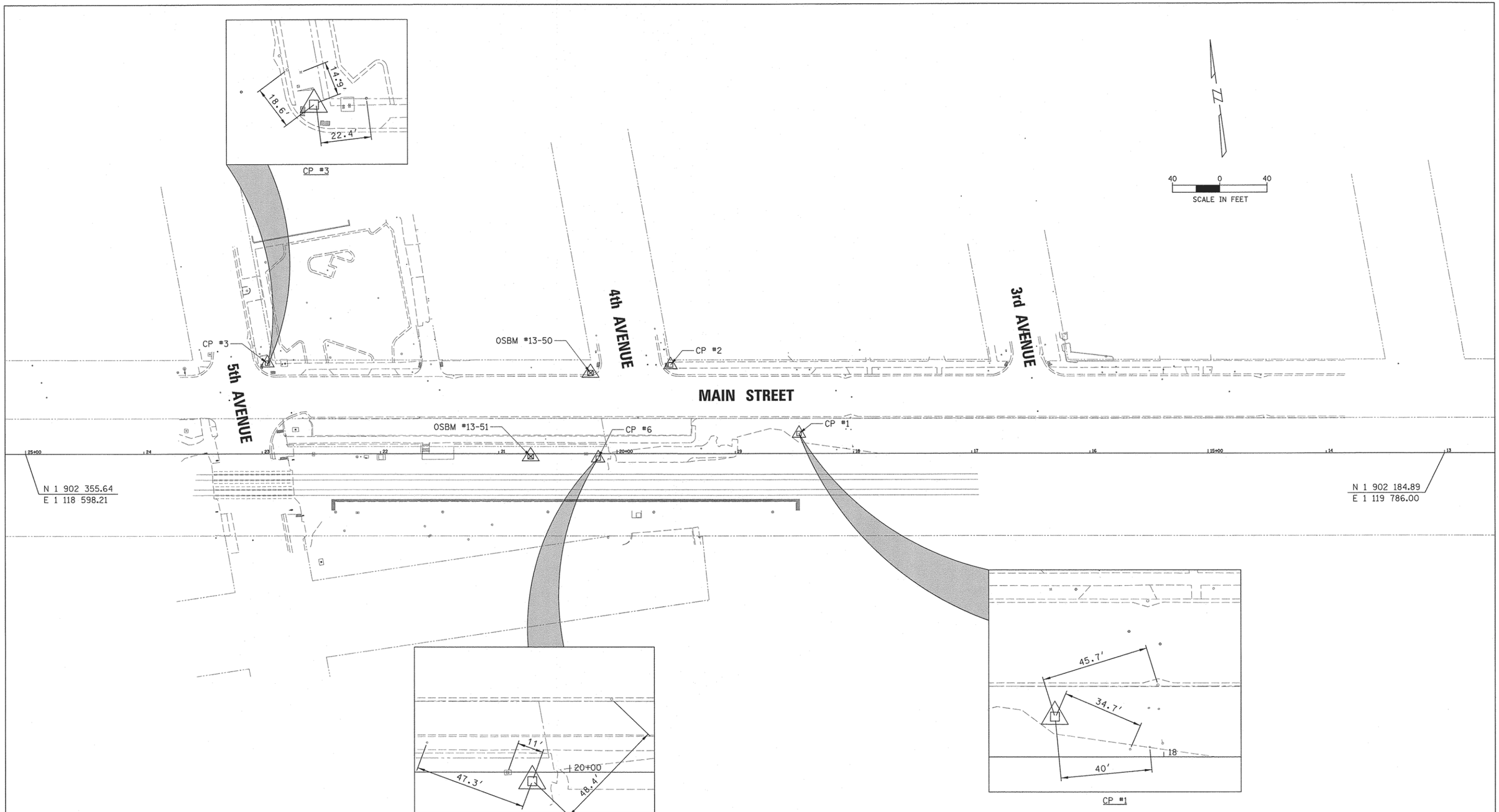

CP NO.	HORIZONTAL CONTROL POINTS NORTHING	EASTING	STATION	OFFSET	DESCRIPTION
1	1 902 279.43	1 119 247.87	18+46.11	17.0' LT	CP-REBAR
2	1 902 352.58	1 119 148.73	19+54.65	75.3' LT	CP-XCUT
6	1 902 282.95	1 119 076.85	20+15.89	3.8' RT	CP-PK
3	1 902 402.70	1 118 811.49	22+95.59	76.9' LT	CP-XCUT

ELEVATION BENCHMARKS
DATUM: NAVD'88 (GPS OBSERVED)

NO.	DESCRIPTION	ELEV.
OSBM 13-50	SOUTHWEST BOLT ON LIGHT POLE ON NORTHWEST CORNER OF 4TH AVENUE & MAIN STREET	627.03
OSBM 13-51	SOUTHEAST BOLT ON LIGHT POLE ON NORTHERLY PLATFORM EAST SIDE	632.42

VILLAGE OF MAYWOOD
40 MADISON STREET
MAYWOOD, IL 60153

USER NAME = mmichalowicz	DESIGNED - MBT	REVISED -	
	DRAWN - MBT	REVISED -	
PLOT SCALE = 40'	CHECKED - MEK	REVISED -	
PLOT DATE = 1/22/2016	DATE - 01/25/16	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAYWOOD METRA STATION
ALGINMENT, TIES & BENCHMARKS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-00136-00-RR	COOK	65	6
		CONTRACT NO. 61C74		
	ILLINOIS	FED. AID PROJECT		

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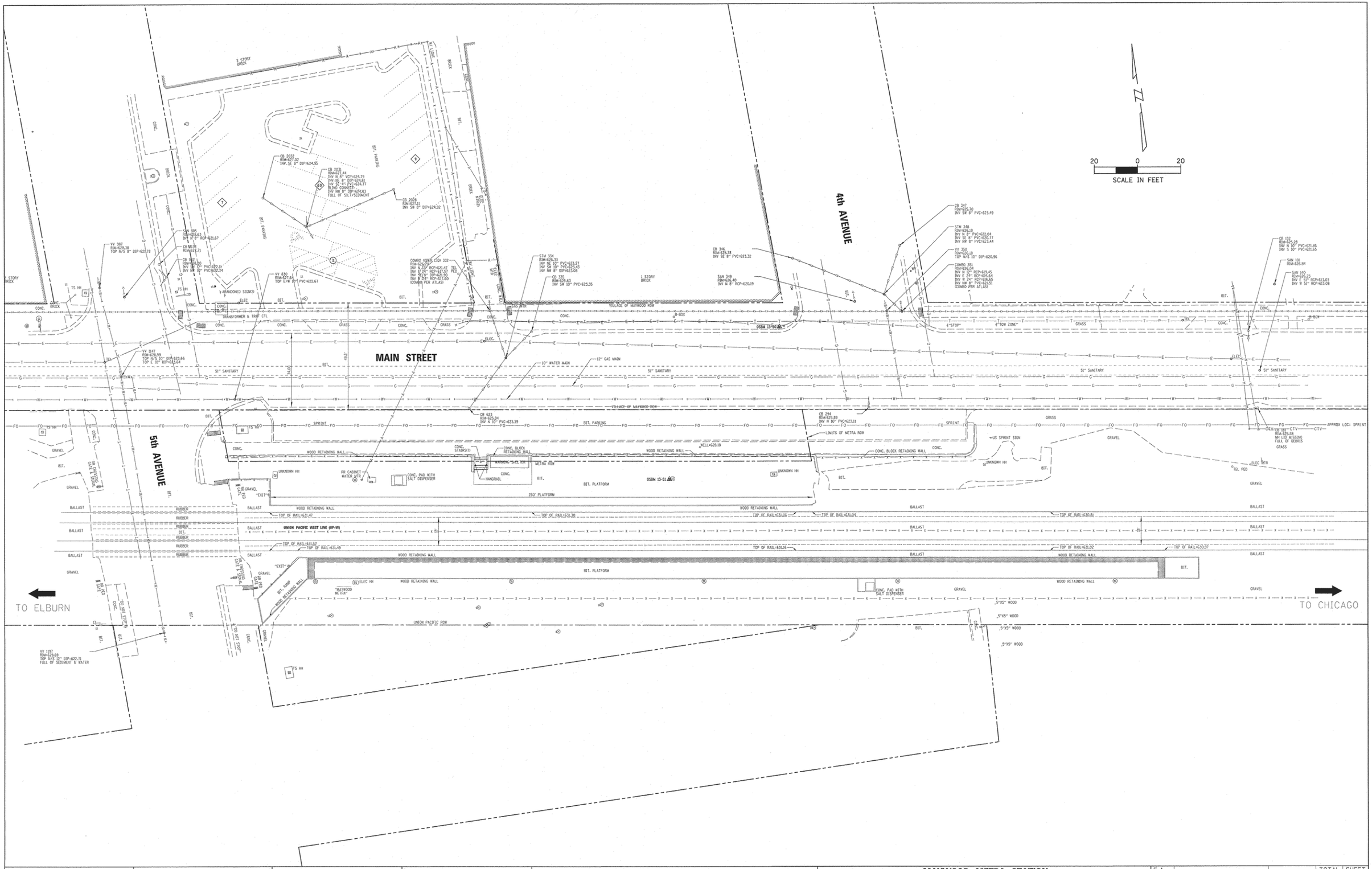

VILLAGE OF MAYWOOD 40 MADISON STREET MAYWOOD, IL 60153	USER NAME = mmichalowicz	DESIGNED - MBT	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAYWOOD METRA STATION EXISTING CONDITIONS
		DRAWN - MBT	REVISED -		
	PLOT SCALE = 20'	CHECKED - MEK	REVISED -		
	PLOT DATE = 1/22/2016	DATE - 01/25/16	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-00136-00-RR	COOK	65	7
		CONTRACT NO. 61C74		
	ILLINOIS	FED. AID PROJECT		

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20 0 20
SCALE IN FEET

5TH AVE.

ALLEY

4TH AVE.

MAIN STREET

COMBINATION CURB AND GUTTER REMOVAL

HOT-MIX ASPHALT SURFACE REMOVAL, 2 3/4" - 1140 SQ YD

STORM SEWER REMOVAL 10" - 5 LF

CURB REMOVAL - 330 FT

COMBINATION CURB AND GUTTER REMOVAL - 925 FT

STORM SEWER REMOVAL 10" - 8 LF

SIDEWALK REMOVAL - 2096 SQ FT

END PROJECT STA. 22+81.17

EXISTING RAMP TO REMAIN OPEN

FENCE REMOVAL - 117 LF

REMOVE TOP TIMBER TIE OF RETAINING WALL AT LIMITS OF PROPOSED PLATFORM AND BURY REMAINING WALL SECTION

BUS SHELTER REMOVE AND RELOCATE

SAW CUT LIMIT

RELOCATE BUS SHELTER TO EXISTING CONCRETE PAD

FENCE REMOVAL - 205 LF

EXISTING INBOUND PLATFORM

TO ELBURN

EX. ML 1 TRACK TO BE ML 2

EX. ML 2 TRACK TO BE ML 3

MATCH LINE

EARTH EXCAVATION - 405 CY

HOT-MIX ASPHALT SURFACE REMOVAL, 6" - 1465 SY

BEGIN PROJECT STA. 14+55.00

TO CHICAGO

LEGEND:

	HOT-MIX ASPHALT SURFACE REMOVAL, 2 3/4"		REMOVE SHELTER PAD LIMITS
	SIDEWALK REMOVAL	R	STRUCTURE TO BE REMOVED
	HOT-MIX ASPHALT SURFACE, REMOVAL, 6"	— x — x —	ITEM REMOVAL
	CURB AND/OR GUTTER REMOVAL	~~~~~~~~~~	STORM SEWER REMOVAL
	EARTH EXCAVATION		

NOTE:

1. FOR ELECTRICAL REMOVAL ITEMS SEE ELECTRICAL PLANS.
2. EXISTING PLATFORM TO BE PROTECTED DURING CONSTRUCTION.

VILLAGE OF MAYWOOD
40 MADISON STREET
MAYWOOD, IL 60153

USER NAME = mmichalowicz	DESIGNED - MBT	REVISED -	
	DRAWN - MBT	REVISED -	
PLOT SCALE = 20'	CHECKED - MEK	REVISED -	
PLOT DATE = 1/22/2016	DATE - 01/25/16	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAYWOOD METRA STATION
REMOVAL PLAN

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-00136-00-RR	COOK	65	8
		CONTRACT NO. 61C74		
	ILLINOIS FED. AID PROJECT			

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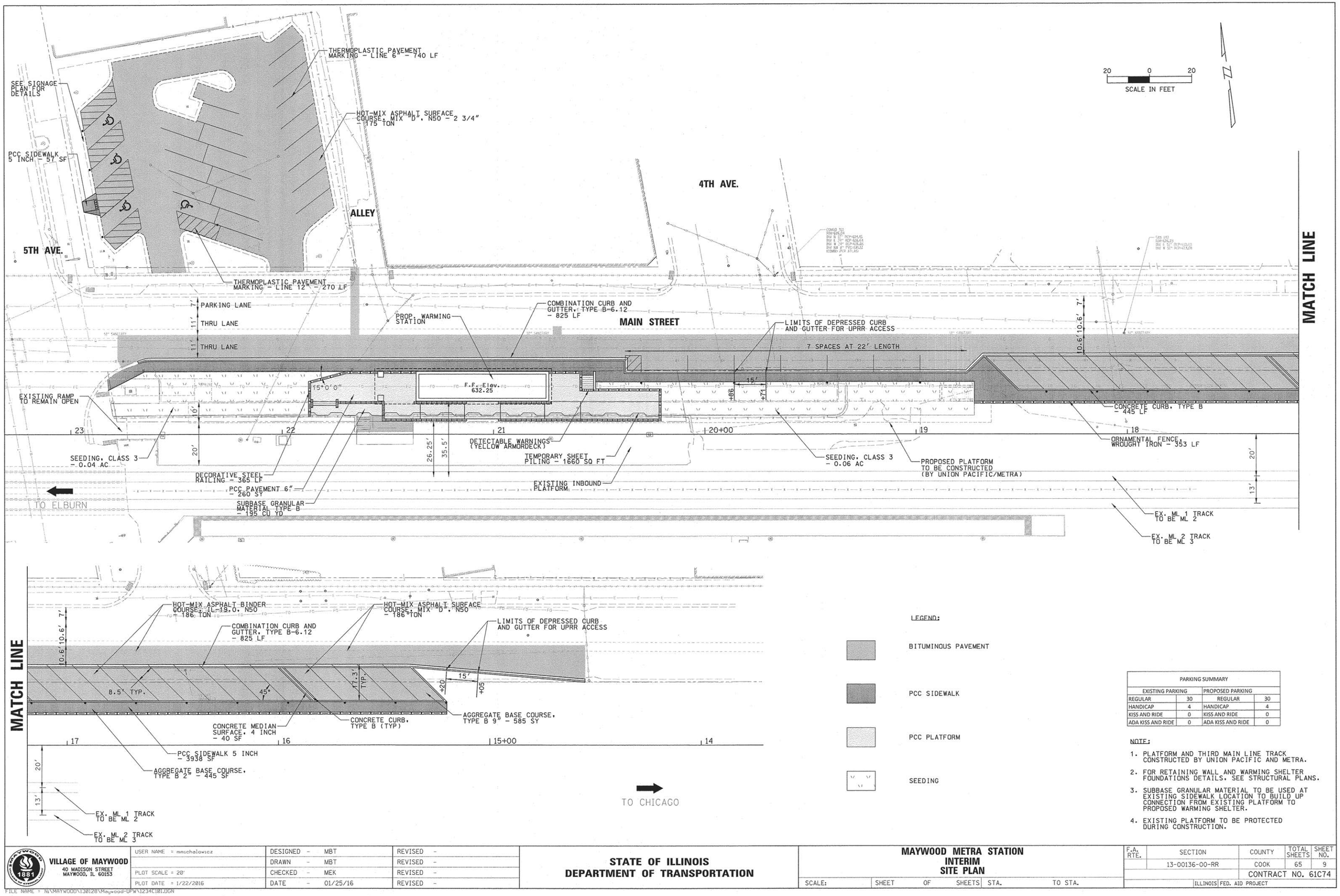


LEGEND:

- BITUMINOUS PAVEMENT
- PCC SIDEWALK
- PCC PLATFORM
- SEEDING

PARKING SUMMARY			
EXISTING PARKING		PROPOSED PARKING	
REGULAR	30	REGULAR	30
HANDICAP	4	HANDICAP	4
KISS AND RIDE	0	KISS AND RIDE	0
ADA KISS AND RIDE	0	ADA KISS AND RIDE	0

NOTE:

1. PLATFORM AND THIRD MAIN LINE TRACK CONSTRUCTED BY UNION PACIFIC AND METRA.
2. FOR RETAINING WALL AND WARMING SHELTER FOUNDATIONS DETAILS, SEE STRUCTURAL PLANS.
3. SUBBASE GRANULAR MATERIAL TO BE USED AT EXISTING SIDEWALK LOCATION TO BUILD UP CONNECTION FROM EXISTING PLATFORM TO PROPOSED WARMING SHELTER.
4. EXISTING PLATFORM TO BE PROTECTED DURING CONSTRUCTION.

VILLAGE OF MAYWOOD
40 MADISON STREET
MAYWOOD, IL 60153

USER NAME = mmichalowicz	DESIGNED - MBT	REVISED -	
	DRAWN - MBT	REVISED -	
PLOT SCALE = 20'	CHECKED - MEK	REVISED -	
PLOT DATE = 1/22/2016	DATE - 01/25/16	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAYWOOD METRA STATION
INTERIM
SITE PLAN

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-00136-00-RR	COOK	65	9
		CONTRACT NO. 61C74		
	ILLINOIS FED. AID PROJECT			

FILE NAME = N:\MAYWOOD\130128\Maywood-UPW\1234C101.DGN

IMPROVED FOOTPRINT
NEW IMPERVIOUS AREA = 5,820 SF
REQUIRED VOLUME CONTROL = 485 CY

20 0 20
SCALE IN FEET

N

5TH AVE.
ALLEY
4TH AVE.
MAIN STREET
PARKING LANE
THRU LANE
THRU LANE
CATCH BASIN WITH SNOUT
BUILDING CONSTRAINT
LEASED RAILROAD PROPERTY
CATCH BASIN WITH SNOUT
RAILROAD FIBER OPTIC CONFLICT
CATCH BASIN WITH SNOUT
UNION PACIFIC RIGHT OF WAY
MATCH LINE
PROP. ML 1 TRACK
TO ELBURN
EX. ML 1 TRACK TO BE ML 2
EX. ML 2 TRACK TO BE ML 3
EXISTING PLATFORM TO REMAIN
MAIN STREET
UNION PACIFIC RIGHT OF WAY
45°
TYP.
MATCH LINE
PROP. ML 1 TRACK
EX. ML 1 TRACK TO BE ML 2
EX. ML 2 TRACK TO BE ML 3
TO CHICAGO

FOR INFORMATION PURPOSES ONLY

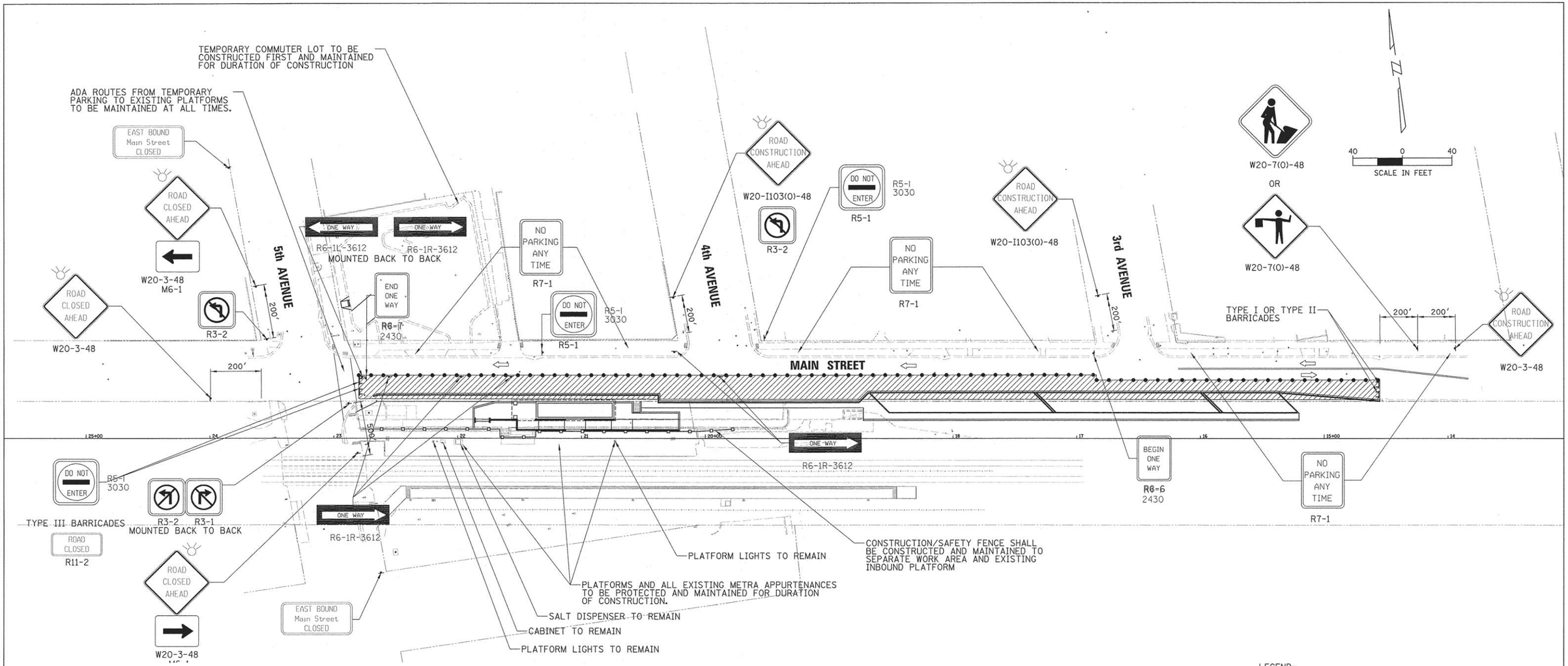
NOTE:

1. PLATFORM AND THIRD MAIN LINE TRACK CONSTRUCTED BY UNION PACIFIC AND METRA.

VILLAGE OF MAYWOOD 40 MADISON STREET MAYWOOD, IL 60153	USER NAME = mmichalowicz	DESIGNED - MBT	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAYWOOD METRA STATION ULTIMATE SITE PLAN
		DRAWN - MBT	REVISED -		
	PLOT SCALE = 40'	CHECKED - MEK	REVISED -		
	PLOT DATE = 5/9/2016	DATE - 01/25/16	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-00136-00-RR	COOK	65	10
		CONTRACT NO. 61C74		
	ILLINOIS FED. AID PROJECT			

FILE NAME = N:\MAYWOOD\130128\Maywood-UPW\MWRD\1234C102_Volume Control_Exhibit.DGN



SUGGESTED STAGES OF CONSTRUCTION

STAGE 1

1. PARKING LOT AT NORTHEAST CORNER OF 5TH AVENUE AND MAIN STREET TO BE RESURFACED AND RESTRIPED. LOT TO BE USED FOR METRA COMMUTERS INCLUDING ADA SPACES.
2. RELOCATE BUS SHELTER AT EXISTING METRA PLATFORM.
3. ESTABLISH ADA ROUTES FROM TEMPORARY PARKING TO EXISTING PLATFORMS WHICH NEED TO BE MAINTAINED AT ALL TIMES.

   ESTIMATED CONSTRUCTION TIME: 2 WEEKS

STAGE 2

1. INSTALL CONSTRUCTION FENCE BETWEEN EXISTING PLATFORM AND PROPOSED CONSTRUCTION LIMITS.
2. INSTALL TRAFFIC CONTROL.
3. BEGIN DEMOLITION ALONG MAIN STREET FOR CONSTRUCTION OF PROPOSED WARMING SHELTER AND PARKING.

   ESTIMATED CONSTRUCTION TIME: 2 WEEKS

STAGE 3

1. ONCE WARMING SHELTER IS COMPLETE, BEGIN CONSTRUCTION OF RAMP CONNECTION BETWEEN EXISTING PLATFORM AND PROPOSED WARMING SHELTER.
2. ONCE PARKING ALONG MAIN STREET IS COMPLETE, MAIN STREET PARKING IS TO BE USED. ONLY ADA SPACES WITHIN THE PARKING LOT ARE TO BE USED FOR METRA COMMUTERS.

   ESTIMATED CONSTRUCTION TIME: 10 WEEKS

STAGE 4

1. ONCE RAMP CONNECTION IS COMPLETE, WARMING SHELTER TO BE USED AND BUS SHELTER TO BE REMOVED.
2. ONCE APPROVED BY RESIDENT ENGINEER, TRAFFIC CONTROL CAN BE REMOVED.

   ESTIMATED CONSTRUCTION TIME: 1 WEEK

LEGEND:

- WORK AREA
- CONE, DRUM OR BARRICADE (NOT REQUIRED FOR MOVING OPERATIONS)
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- BARRICADE OR DRUM WITH FLASHING LIGHT
- CONSTRUCTION/SAFTEY FENCE

(1) CONES AT 25' (8m) CENTERS FOR 250' (75m). ADDITIONAL CONES MAY BE PLACED AT 50' (15m) CENTERS. WHEN DRUMS OR TYPE I OR TYPE II BARRICADES ARE USED THE INTERVAL BETWEEN DEVICES MAY BE DOUBLED.

(2) CONES, DRUMS OR BARRICADES AT 20' (6m) CENTERS.

(3) TO BE REMOVED WHEN WORKERS OR FLAGGERS ARE NOT PRESENT FOR MORE THAN 1 HOUR.

NOTES:

1. PROTECT EXISTING INBOUND PLATFORM DURING CONSTRUCTION.

VILLAGE OF MAYWOOD 40 MADISON STREET MAYWOOD, IL 60153	USER NAME = emichalowicz	DESIGNED - MBT	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAYWOOD METRA STATION SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL
		DRAWN - MBT	REVISED -		
	PLOT SCALE = 40'	CHECKED - MEK	REVISED -		
	PLOT DATE = 2/19/2016	DATE - 01/25/16	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-00136-00-RR	COOK	65	11
		CONTRACT NO. 61C74		
		ILLINOIS FED. AID PROJECT		

FILE NAME = N:\MAYWOOD\130128\Maywood-UPW\1234C105.DGN

LEGEND:

TC xxx.xx	TOP OF CURB ELEVATION	TW xxx.xx	EXISTING ELEVATION
FL xxx.xx	FLOW LINE ELEVATION	EX xxx.xx	
TPF xxx.xx	TOP OF PLATFORM ELEVATION	S103	DRAINAGE STRUCTURE
BW xxx.xx	BOTTOM OF WALL ELEVATION	P101	STORM SEWER PIPE
TS xxx.xx	TOP OF SIDEWALK		LIGHT POLE
EL xxx.xx	SPOT ELEVATION		
	TOP OF WALL ELEVATION		

DRAINAGE STRUCTURE TABLE

STRUCTURE	STRUCTURE TYPE	RIM ELEVATION	INV
S101	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11 FRAME AND GRATE	626.10	N 623.35
S102	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11 FRAME AND GRATE	625.89	N 623.12
S103	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11 FRAME AND GRATE	625.81	*
S104	MANHOLE, TYHPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	626.89	S 613.31
S105	MANHOLE, TYHPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	627.03	N 620.14

NOTES: * Survey shows existing CB full of debris. Proposed invert CB to be set in field.

SANITARY/STORM SEWER PIPE SCHEDULE

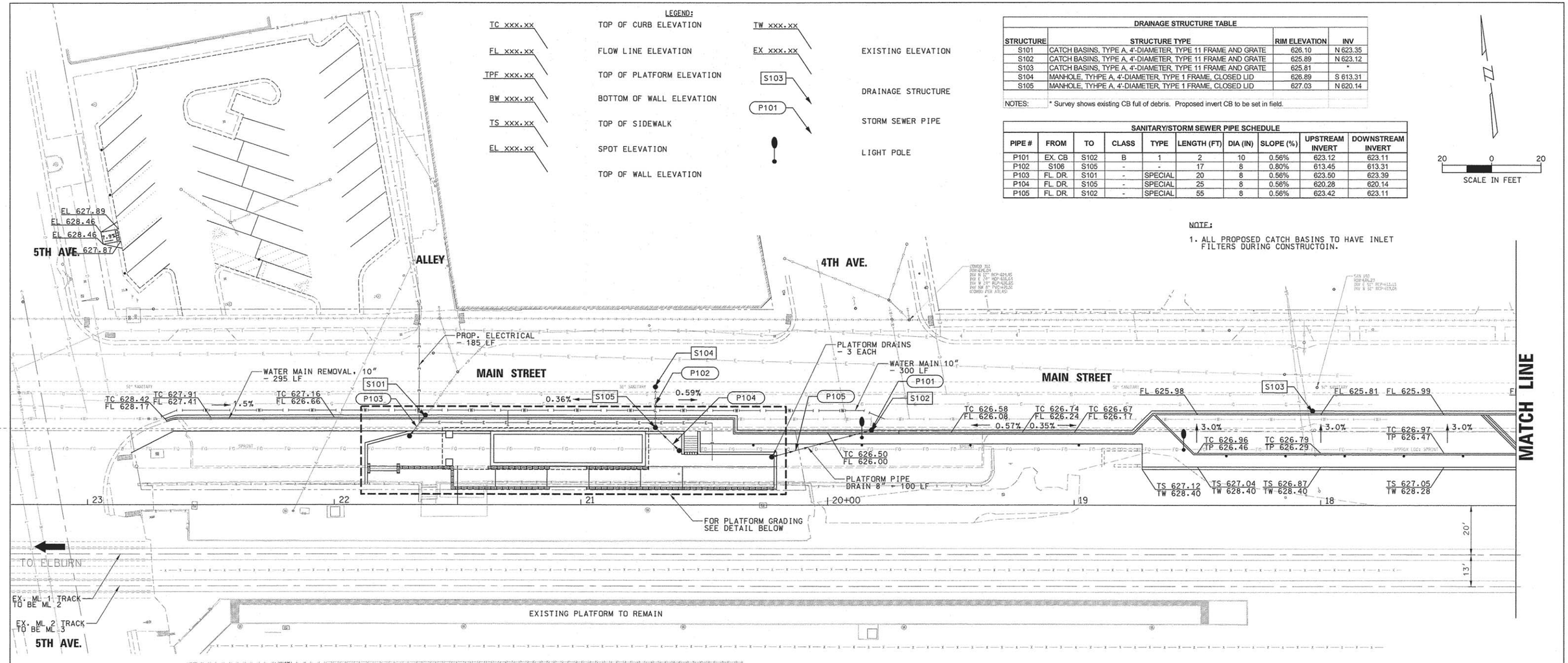
PIPE #	FROM	TO	CLASS	TYPE	LENGTH (FT)	DIA (IN)	SLOPE (%)	UPSTREAM INVERT	DOWNSTREAM INVERT
P101	EX. CB	S102	B	1	2	10	0.56%	623.12	623.11
P102	S106	S105	-	-	17	8	0.80%	613.45	613.31
P103	FL. DR.	S101	-	SPECIAL	20	8	0.56%	623.50	623.39
P104	FL. DR.	S105	-	SPECIAL	25	8	0.56%	620.28	620.14
P105	FL. DR.	S102	-	SPECIAL	55	8	0.56%	623.42	623.11

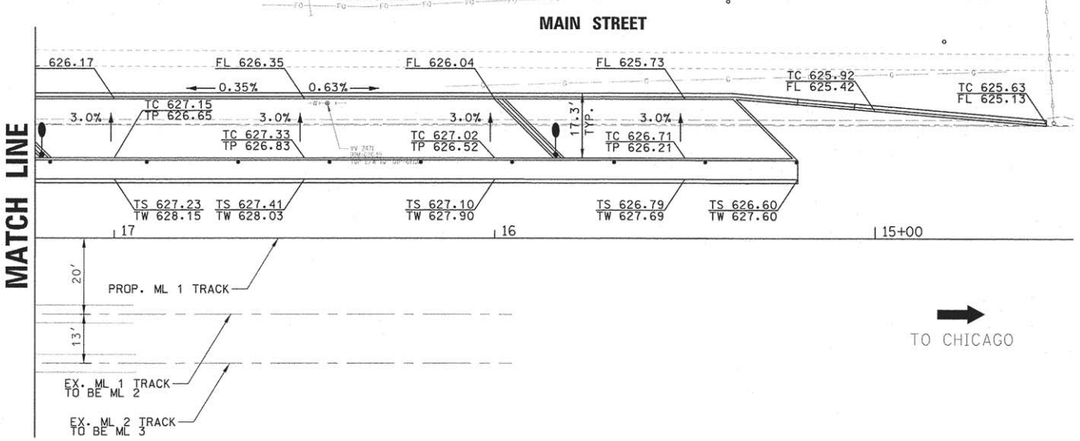
N

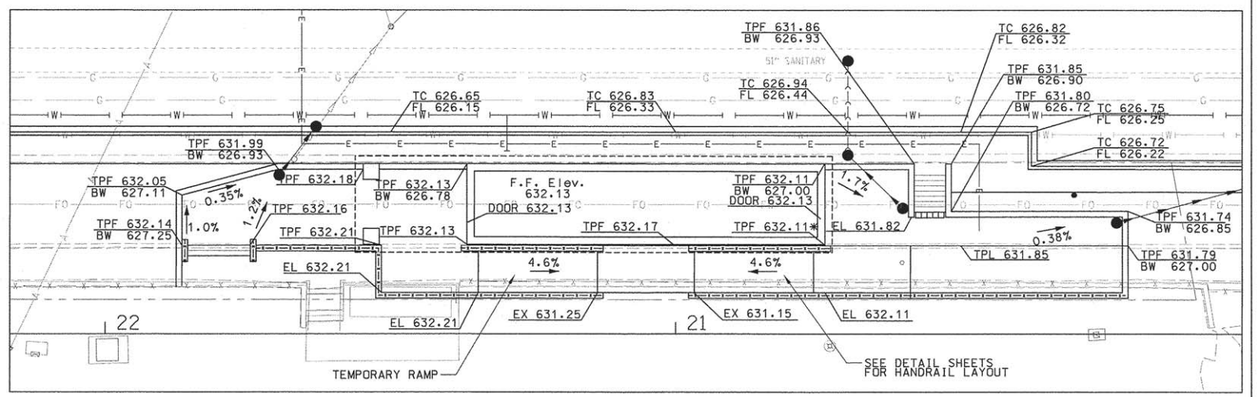
20 0 20
SCALE IN FEET

NOTE:

1. ALL PROPOSED CATCH BASINS TO HAVE INLET FILTERS DURING CONSTRUCTOIN.







PLATFORM GRADING DETAIL

VILLAGE OF MAYWOOD
40 MADISON STREET
MAYWOOD, IL 60153

USER NAME = mmichalowicz	DESIGNED - MBT	REVISED -	
	DRAWN - MBT	REVISED -	
PLOT SCALE = 20'	CHECKED - MEK	REVISED -	
PLOT DATE = 1/22/2016	DATE - 01/25/16	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAYWOOD METRA STATION
GRADING AND UTILITY PLAN

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-00136-00-RR	COOK	65	12
		CONTRACT NO. 61C74		
	ILLINOIS FED. AID PROJECT			

FILE NAME = N:\MAYWOOD\130128\Maywood-UPW\1234C103.DGN

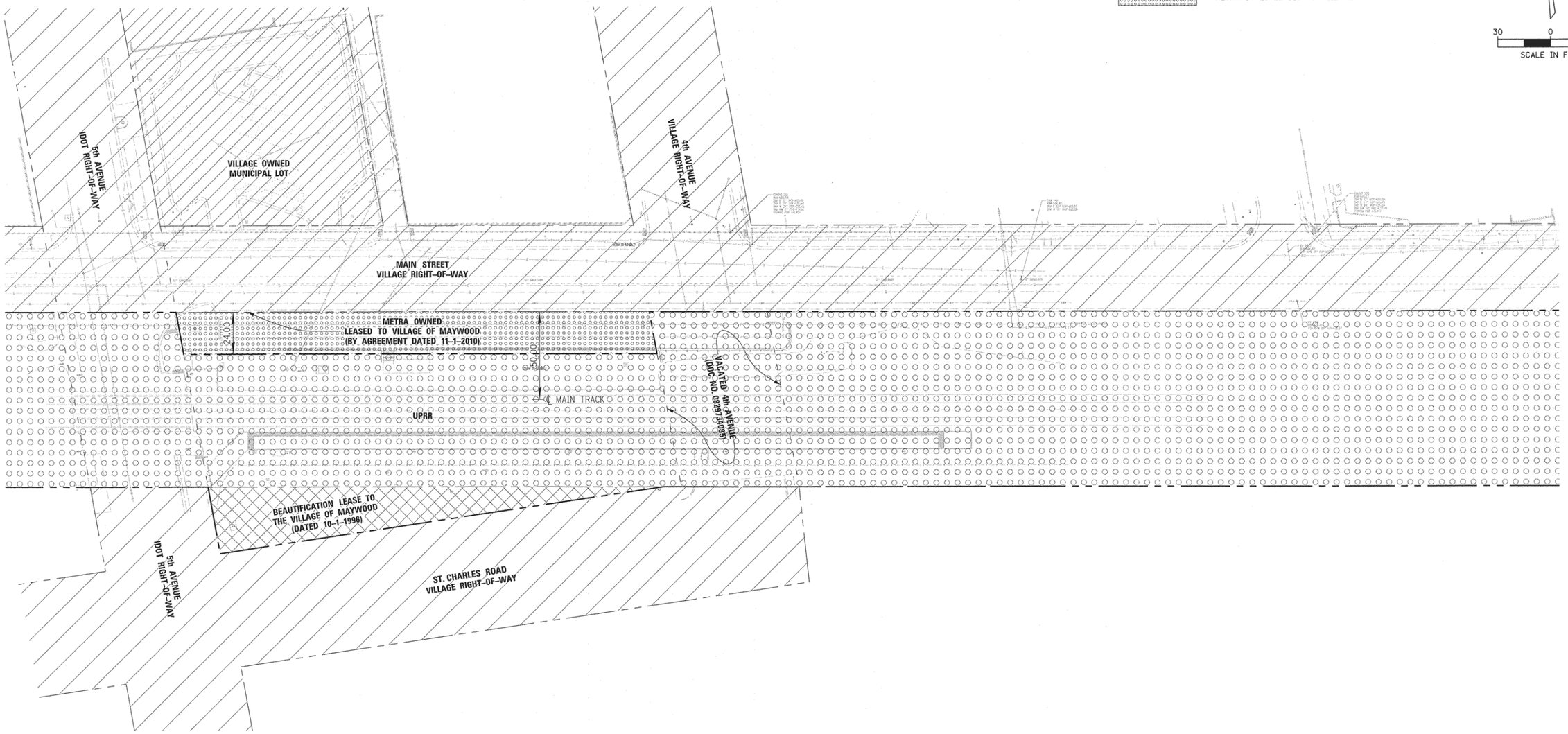
LEGEND

- PUBLIC RIGHT-OF-WAY
- UNION PACIFIC RAILROAD RIGHT-OF-WAY (UPRR)
- VILLAGE OF MAYWOOD PROPERTY
- UNION PACIFIC RAILROAD LEASED TO VILLAGE (UPRR)
- METRA OWNED LEASED TO VILLAGE

N

30 0 30

SCALE IN FEET



VILLAGE OF MAYWOOD
40 MADISON STREET
MAYWOOD, IL 60153

USER NAME = mmicholowicz	DESIGNED - MBT	REVISED -	
	DRAWN - AJK	REVISED -	
PLOT SCALE = 30'	CHECKED - MEK	REVISED -	
PLOT DATE = 2/19/2016	DATE - 11-17-2015	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAYWOOD METRA STATION
SITUATION SURVEY

SCALE: 1"=30' | SHEET 1 OF 1 SHEETS | STA. | TO STA.

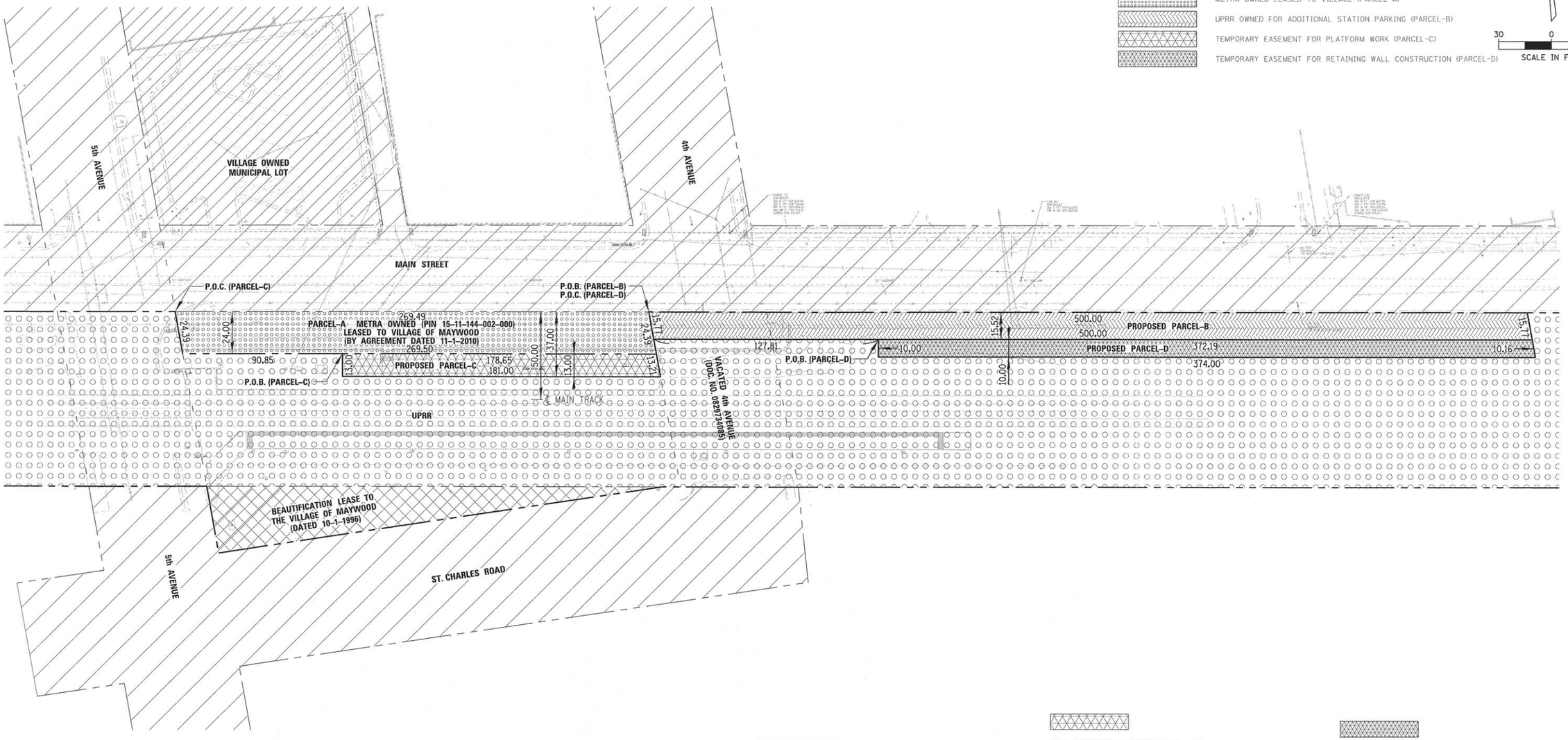
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-00136-00-RR	COOK	65	13
		CONTRACT NO. 61C74		
	ILLINOIS FED. AID PROJECT			

FILE NAME = N:\MAYWOOD\130128\Maywood-UPW\1234C201.dgn

LEGEND

- PUBLIC RIGHT-OF-WAY
- UNION PACIFIC RAILROAD RIGHT-OF-WAY (UPRR)
- VILLAGE OF MAYWOOD PROPERTY
- UNION PACIFIC RAILROAD LEASED TO VILLAGE (UPRR)
- METRA OWNED LEASED TO VILLAGE (PARCEL-A)
- UPRR OWNED FOR ADDITIONAL STATION PARKING (PARCEL-B)
- TEMPORARY EASEMENT FOR PLATFORM WORK (PARCEL-C)
- TEMPORARY EASEMENT FOR RETAINING WALL CONSTRUCTION (PARCEL-D)

30 0 30
SCALE IN FEET



LEGAL DESCRIPTION (PARCEL – A) METRA OWNED / VILLAGE LEASED

THAT PART OF THE NORTHWEST QUARTER OF SECTION 11, TOWNSHIP 39 NORTH, RANGE 12 EAST OF THE THIRD PRINCIPAL MERIDIAN, BOUNDED AS FOLLOWS:

ON THE EAST BY THE WEST LINE OF 4TH AVENUE; ON THE WEST BY THE EAST LINE OF 5TH AVENUE; ON THE NORTH BY A LINE PARALLEL WITH AND DISTANT 50 FEET NORTHERLY, MEASURED AT RIGHT ANGLES, FROM THE CENTERLINE OF THE MAIN TRACK OF THE CHICAGO AND NORTH WESTERN RAILWAY COMPANY (NOW THE CHICAGO AND NORTH WESTERN TRANSPORTATION COMPANY), AS SAID MAIN TRACK CENTERLINE WAS ORIGINALLY LOCATED AND ESTABLISHED OVER AND ACROSS SAID SECTION 11, SAID LINE ALSO BEING THE SOUTH LINE OF MAIN STREET; AND ON THE SOUTH BY A LINE PARALLEL WITH AND DISTANT 24 FEET SOUTHERLY MEASURED AT RIGHT ANGLES FROM THE SOUTH LINE OF SAID MAIN STREET.

LEGAL DESCRIPTION (PROPOSED PARCEL – B)
UPRR OWNED FOR ADDITIONAL STATION PARKING

THAT PART OF THE NORTHWEST QUARTER OF SECTION 11, TOWNSHIP 39 NORTH, RANGE 12 EAST OF THE THIRD PRINCIPAL MERIDIAN IN COOK COUNTY, ILLINOIS, BEING DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT OF INTERSECTION WITH THE NORTHERLY RIGHT-OF-WAY LINE OF THE UNION PACIFIC RAILROAD (F.K.A. THE CHICAGO AND NORTH WESTERN RAILROAD) AND THE WEST LINE OF 4TH AVENUE (NOW VACATED PER DOCUMENT NO. 0829734085); THENCE EASTERLY ALONG SAID NORTHERLY RIGHT-OF-WAY LINE 500.00 FEET TO A POINT ON A LINE, SAID LINE BEING PARALLEL WITH SAID WEST RIGHT-OF-WAY LINE OF 4TH AVENUE; THENCE SOUTHERLY ALONG SAID PARALLEL LINE 15.77 FEET TO A POINT ON A LINE LYING 15.52 FEET SOUTHERLY OF AND PARALLEL WITH SAID NORTHERLY RIGHT-OF-WAY LINE OF THE UNION PACIFIC RAILROAD; THENCE WESTERLY ALONG SAID PARALLEL LINE 500.00 FEET TO A POINT ON SAID WEST LINE OF 4TH AVENUE (NOW VACATED); THENCE NORTHERLY ALONG SAID WEST RIGHT-OF-WAY LINE 15.77 FEET TO THE POINT OF BEGINNING.

LEGAL DESCRIPTION (PROPOSED PARCEL – C)
TEMPORARY EASEMENT FOR PLATFORM WORK

THAT PART OF THE NORTHWEST QUARTER OF SECTION 11, TOWNSHIP 39 NORTH, RANGE 12 EAST OF THE THIRD PRINCIPAL MERIDIAN IN COOK COUNTY, ILLINOIS, BEING DESCRIBED AS FOLLOWS:

COMMENCING AT A POINT OF INTERSECTION WITH THE NORTHERLY RIGHT-OF-WAY LINE OF THE UNION PACIFIC RAILROAD (F.K.A. THE CHICAGO AND NORTH WESTERN RAILROAD) AND THE EAST RIGHT-OF-WAY LINE OF 5TH AVENUE; THENCE SOUTHERLY ALONG SAID EAST RIGHT-OF-WAY LINE 24.39 FEET TO A POINT ON A LINE BEING 24.00 FEET SOUTHERLY OF AND PARALLEL WITH SAID NORTHERLY RIGHT-OF-WAY LINE OF THE UNION PACIFIC RAILROAD; THENCE EASTERLY ALONG SAID PARALLEL LINE 90.85 FEET TO THE POINT OF BEGINNING; THENCE CONTINUING EASTERLY 178.65 FEET ALONG SAID PARALLEL LINE TO A POINT ON A LINE, SAID LINE BEING THE WESTERLY RIGHT-OF-WAY LINE OF 4TH AVENUE (NOW VACATED PER DOCUMENT NO. 0829734085); THENCE SOUTHERLY ALONG SAID WESTERLY RIGHT-OF-WAY LINE 13.21 FEET TO A POINT ON A LINE 37.00 FEET SOUTHERLY OF AND PARALLEL WITH SAID NORTHERLY RIGHT-OF-WAY LINE OF THE UNION PACIFIC RAILROAD; THENCE WESTERLY ALONG SAID PARALLEL LINE 181.00 FEET; THENCE NORTHERLY ALONG A LINE PERPENDICULAR TO THE LAST DESCRIBED PARALLEL LINE 13.00 FEET TO THE POINT OF BEGINNING.

LEGAL DESCRIPTION (PROPOSED PARCEL – D)
UPRR OWNED TEMPORARY CONSTRUCTION EASEMENT FOR RETAINING WALL

THAT PART OF THE NORTHWEST QUARTER OF SECTION 11, TOWNSHIP 39 NORTH, RANGE 12 EAST OF THE THIRD PRINCIPAL MERIDIAN IN COOK COUNTY, ILLINOIS, BEING DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT OF INTERSECTION WITH THE NORTHERLY RIGHT-OF-WAY LINE OF THE UNION PACIFIC RAILROAD (F.K.A. THE CHICAGO AND NORTH WESTERN RAILROAD) AND THE WEST LINE OF 4TH AVENUE (NOW VACATED PER DOCUMENT NO. 0829734085); THENCE SOUTHERLY ALONG SAID WEST LINE 15.77 FEET TO A POINT ON A LINE LYING 15.52 FEET SOUTHERLY OF AND PARALLEL WITH SAID NORTHERLY RIGHT-OF-WAY LINE OF THE UNION PACIFIC RAILROAD; THENCE EASTERLY ALONG SAID PARALLEL LINE 127.81 FEET TO THE POINT OF BEGINNING; THENCE CONTINUING EASTERLY ALONG SAID PARALLEL LINE 372.19 FEET TO A POINT ON A LINE, SAID LINE BEING PARALLEL WITH SAID WEST RIGHT-OF-WAY LINE OF 4TH AVENUE; THENCE SOUTHERLY ALONG SAID PARALLEL LINE 10.16 FEET TO A POINT ON A LINE LYING 25.52 FEET SOUTHERLY OF AND PARALLEL WITH SAID NORTHERLY RIGHT-OF-WAY LINE OF THE UNION PACIFIC RAILROAD; THENCE WESTERLY ALONG SAID PARALLEL LINE 374.00 FEET; THENCE NORTHERLY ALONG A LINE PERPENDICULAR WITH SAID PARALLEL LINE 10.00 FEET TO THE POINT OF BEGINNING.

VILLAGE OF MAYWOOD 40 MADISON STREET MAYWOOD, IL 60153	USER NAME = akaravakis	DESIGNED - MBT	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAYWOOD METRA STATION MAIN STREET OPTION
		DRAWN - AJK	REVISED -		
	PLOT SCALE = 30'	CHECKED - MEK	REVISED -		
	PLOT DATE = 5/23/2016	DATE - 11-17-2015	REVISED - 05-23-2016		SCALE: 1"=30' SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-00136-00-RR	COOK	65	14
		CONTRACT NO. 61C74		
		ILLINOIS FED. AID PROJECT		

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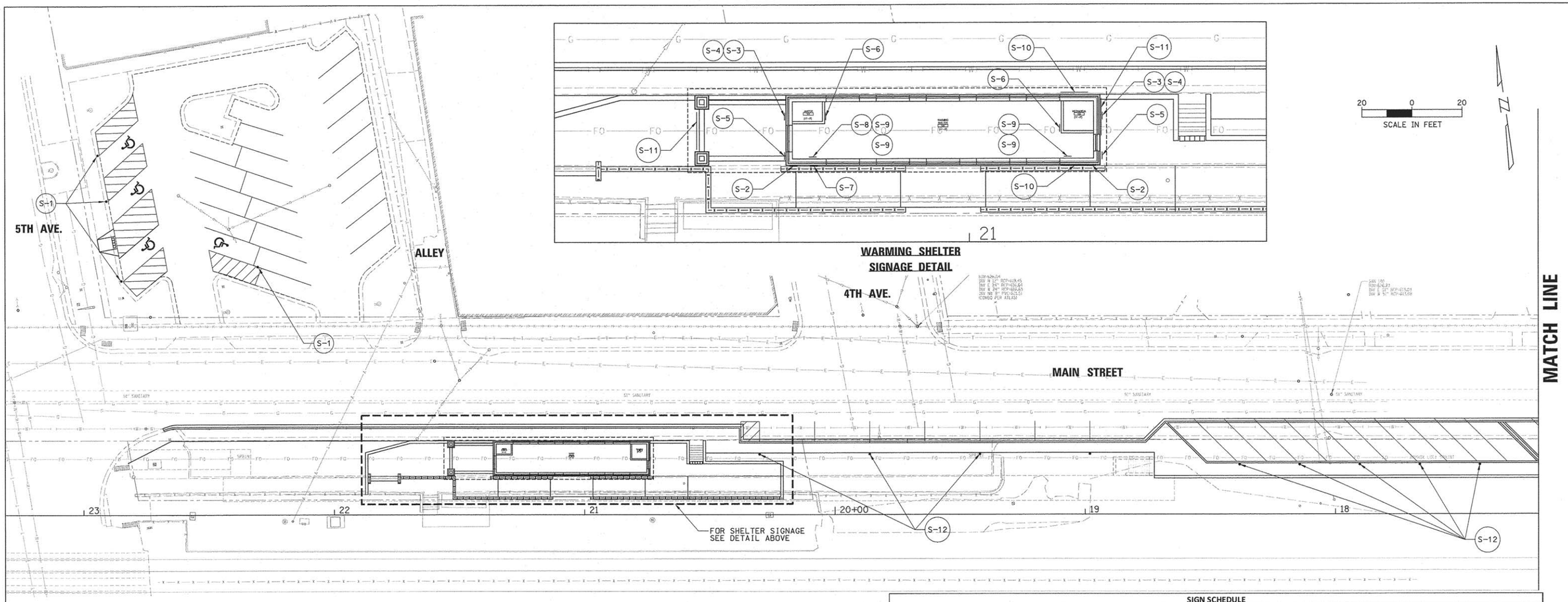
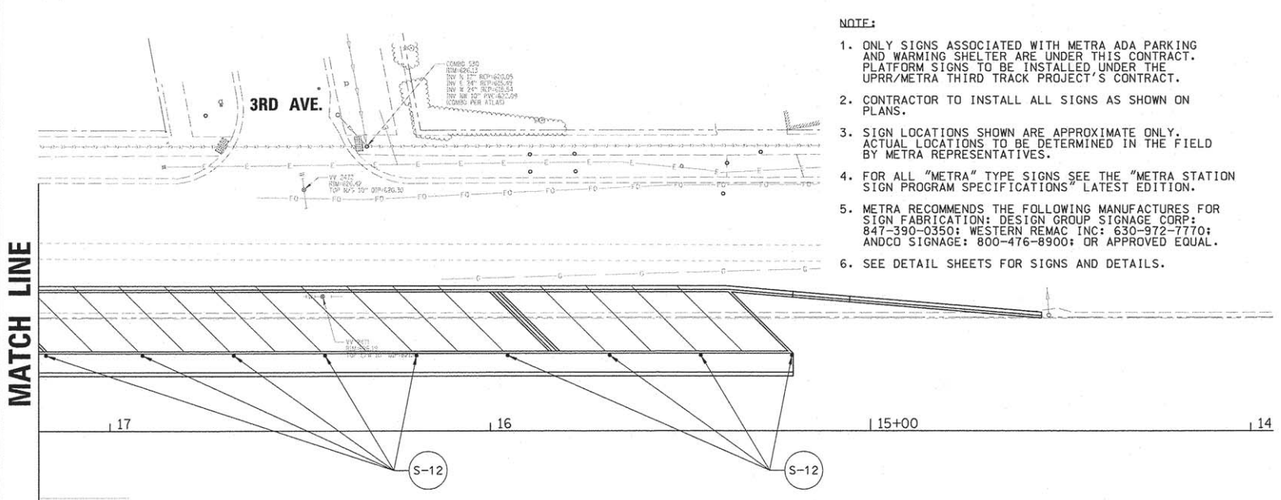




NOTE:

1. ONLY SIGNS ASSOCIATED WITH METRA ADA PARKING AND WARMING SHELTER ARE UNDER THIS CONTRACT. PLATFORM SIGNS TO BE INSTALLED UNDER THE UPRR/METRA THIRD TRACK PROJECT'S CONTRACT.
2. CONTRACTOR TO INSTALL ALL SIGNS AS SHOWN ON PLANS.
3. SIGN LOCATIONS SHOWN ARE APPROXIMATE ONLY. ACTUAL LOCATIONS TO BE DETERMINED IN THE FIELD BY METRA REPRESENTATIVES.
4. FOR ALL "METRA" TYPE SIGNS SEE THE "METRA STATION SIGN PROGRAM SPECIFICATIONS" LATEST EDITION.
5. METRA RECOMMENDS THE FOLLOWING MANUFACTURES FOR SIGN FABRICATION: DESIGN GROUP SIGNAGE CORP: 847-390-0350; WESTERN REMAC INC: 630-972-7770; ANDCO SIGNAGE: 800-476-8900; OR APPROVED EQUAL.
6. SEE DETAIL SHEETS FOR SIGNS AND DETAILS.

SIGN SCHEDULE

KEY	SIGN TYPE	SIDE A	SIGN SIZE	QUANTITY	#OF SIDES	MOUNTING TYPE	MOUNTING HEIGHT	REMARK
S-1	P-7A	RESERVED PARKING $250 FINE	18" H X 12" W	4	1	POST	54" FROM GRADE TO BOTTOM OF SIGN	
S-2	2A	MAYWOOD PLATFORM 1 TO CHICAGO→	12" H X 72" W	2	1	FLUSH	72" FROM GRADE TO TOP OF SIGN	
S-3	1Da	MAYWOOD STATION	4.5" H X 9" W	2	1	FLUSH	60" FROM GRADE TO UNDERSIDE OF 1ST LINE OF COPY	GRADE 2 BRAILLE
S-4	M-5	STATION HOURS	4.5" H X 9" W	2	1	FLUSH	66" FROM GRADE TO BOTTOM OF SIDE	HOURS TO BE COORDINATED WITH VILLAGE OF MAYWOOD
S-5	8E	NO SMOKING INDOOR OR WITHIN 15 FT OF ENTRANCE	7" H X 5" W	2	1	GLASS MOUNTED DECAL	66" FROM GRADE TO TOP OF SIGN	
S-6	6.4	EMPLOYEES ONLY	12" H X 9' W	2	1	FLUSH	96" FROM GRADE TO BOTTOM OF SIGN	
S-7	3D	INFORMATION DISPLAY BOARD	22.5" H X 23.5" W	2	1	FLUSH	60" FROM GRADE TO BOTTOM OF SIGN	
S-8	3C	INFORMATION DISPLAY BOARD	30.25" H X 41.5" W	1	1	FLUSH	60" FROM GRADE TO BOTTOM OF SIGN	
S-9	3E	INFORMATION DISPLAY BOARD	23.5" H X 22.5" W	4	1	FLUSH	60" FROM GRADE TO BOTTOM OF SIGN	
S-10	1B	MAJOR STATION IDENTIFIER	15" H X 132" W	2	1	FLUSH	12" BELOW TOP OF MASONRY	
S-11	1C	MAJOR STATION IDENTIFIER	12" H X 98.5" W	2	1	1 FLUSH/ 1 CANOPY MOUNTED	12" BELOW TOP OF MASONRY/ HUNG FROM CANOPY	
S-12	P-3A	PARKING SPACE NUMBER	6" X 12"	18	1	POST	48" FROM GRADE TO BOTTOM OF SIGN	

VILLAGE OF MAYWOOD
40 MADISON STREET
MAYWOOD, IL 60153

USER NAME = mmichalowicz	DESIGNED - MBT	REVISED -	
	DRAWN - MBT	REVISED -	
PLOT SCALE = 20'	CHECKED - MEK	REVISED -	
PLOT DATE = 1/22/2016	DATE - 01/25/16	REVISED -	

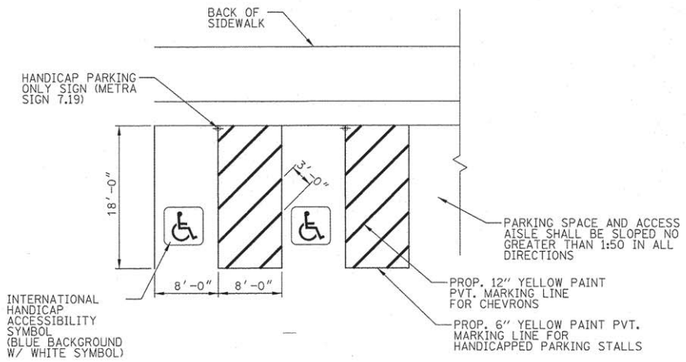
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAYWOOD METRA STATION
SIGNAGE PLAN

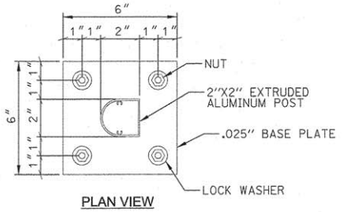
SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-00136-00-RR	COOK	65	15
		CONTRACT NO. 61C74		
	ILLINOIS FED. AID PROJECT			

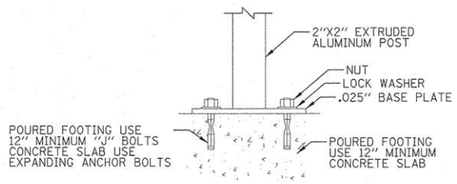
FILE NAME = N:\MAYWOOD\130128\Maywood-UPW\1234C104.DGN



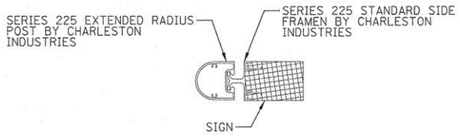
H.C. ACCESSABLE PARKING SPACES
NTS



PLAN VIEW



ELEVATION



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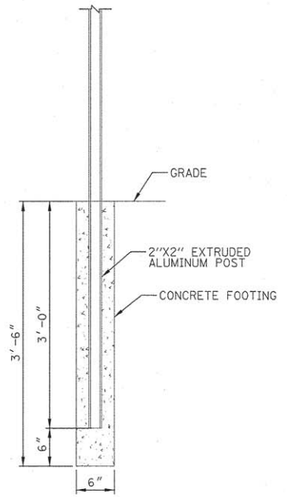
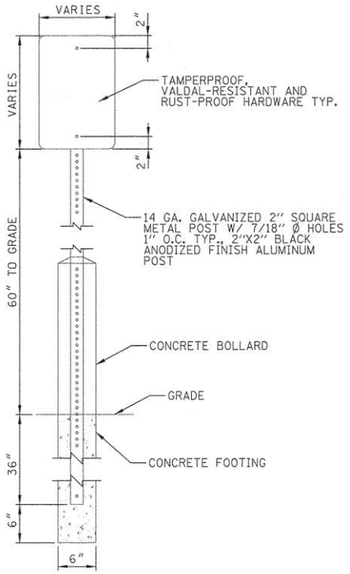


TYP. POST MOUNT DETAIL
NTS



POST MOUNT DETAIL FOR PARKING SIGNAGES
NTS

S-1 - P-7A
NTS

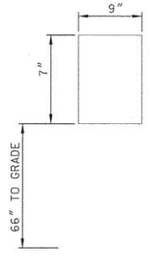
S-2 - 2A - FLUSH MOUNT
NTS

S-3 - 1Da - FLUSH MOUNTED
NTS

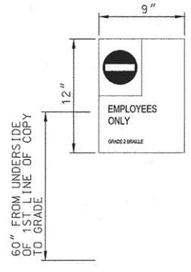
S-4 - M5 - FLUSH MOUNTED
NTS

S-10 - 1B - FLUSH MOUNTED
NTS

S-11 - 1C - FLUSH/CANOPY MOUNTED
NTS



S-5 - 8E - FLUSH MOUNTED
NTS



S-6 - 6.4 - FLUSH MOUNTED
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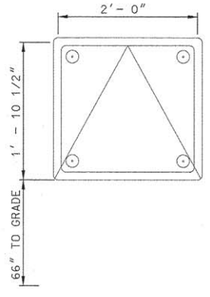

S-7 - 3D - FLUSH MOUNTED
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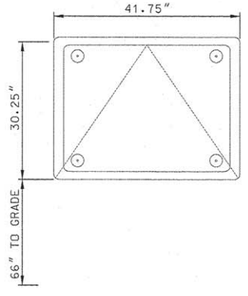
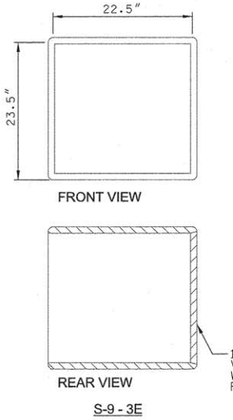
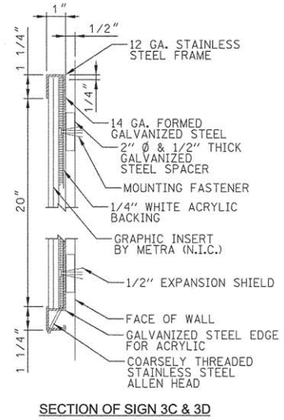


S-8 - 3C
NTS

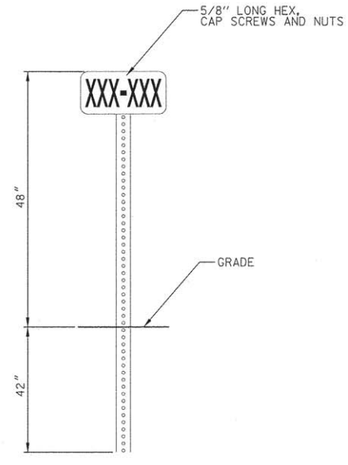


S-9 - 3E
NTS

METRA SIGNS



SECTION OF SIGN 3C & 3D
NTS



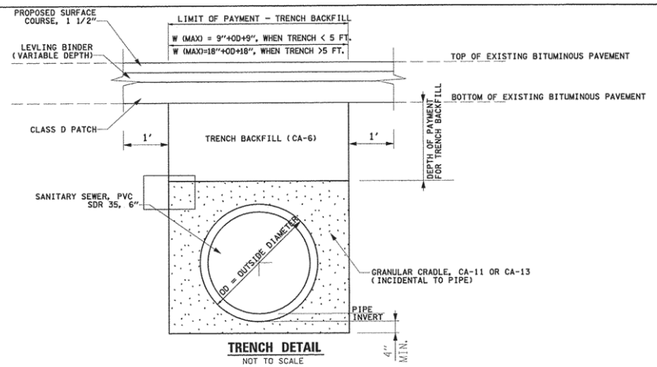
NOTE:
IN PAVEMENT AREA, CORE PAVEMENT AFTER CONSTRUCTION FOR POST INSTALLATION AND FILL VOIDS AFTER POST INSTALLATION WITH HOT POURED JOINT SEALER COMPLYING WITH ASTM-3405 OR SILICONE JOINT SEALANT.

TYP. POST MOUNTED DETAIL
SIGN TYPE P-3A PARKING SPACE NUMBER
NTS

VILLAGE OF MAYWOOD 40 MADISON STREET MAYWOOD, IL 60153	USER NAME = mmichalowicz	DESIGNED - MBT	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAYWOOD METRA STATION CIVIL DETAILS
		DRAWN - MBT	REVISED -		
	PLOT SCALE = 10'	CHECKED - MEK	REVISED -		SCALE: / SHEET OF SHEETS / STA. / TO STA.
	PLOT DATE = 1/22/2016	DATE - 01/25/16	REVISED -		

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-00136-00-RR	COOK	65	16
		CONTRACT NO. 61C74		
	ILLINOIS FED. AID PROJECT			

FILE NAME = N:\MAYWOOD\130128\Maywood-UPW\1234C307.DGN



TRENCH DETAIL
NOT TO SCALE

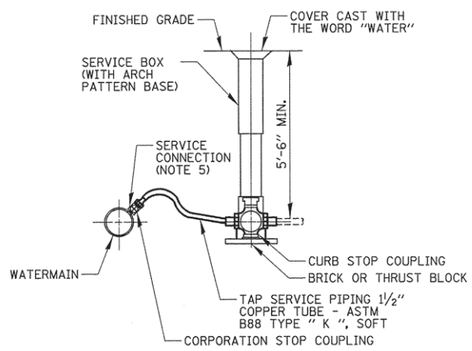
TRENCH BACKFILL TABLE

NOMINAL PIPE DIAMETER INCHES	PIPE OD INCHES	W (TRENCH WIDTH PAY LIMITS) INCHES < 5' DEPTH
8"	8.5"	27"

TRENCH BACKFILL NOTES:

1. BEDDING/HAUNCHING/INITIAL BACKFILL:
   A. FOR FLEXIBLE (PVC) PIPE THE BEDDING/HAUNCHING/INITIAL BACKFILL MATERIAL SHALL CONFORM TO IDOT CA-11 OR CA-13 GRADATION.
   B. FOR RIGID (D.I.) PIPE THE BEDDING MATERIAL SHALL BE CA-11, AND THE HAUNCHING/INITIAL BACKFILL SHALL MATCH THE TRENCH BACKFILL MATERIAL.
2. AFTER BEDDING HAS BEEN PLACED/COMPACTED/BROUGHT TO GRADE, PLACE AND COMPACT HAUNCHING TO PIPE SPRING LINE.
3. PLACE INITIAL BACKFILL IN TWO STAGES AS FOLLOWS: 1st STAGE - PLACE & COMPACT TO TOP OF PIPE; 2nd STAGE - PLACE & COMPACT AT LEAST 12" OVER TOP OF PIPE.
4. VOIDS LEFT BY SHEETING/BRACING WHEN REMOVED SHALL BE FILLED WITH FINE SAND AND SHALL BE INCLUDED IN THE COST OF THE WORK. SHEETING TO BE LEFT IN PLACE WHEN SPECIFIED ON THE PLANS.
5. CONTRACTOR IS RESPONSIBLE FOR ALL RESTORATION BEYOND THE LIMIT OF PAYMENT AS SHOWN. THE LIMIT OF PAYMENT FOR DRIVEWAY RESTORATION MAY BE MODIFIED AS NOTED BELOW (NOTE 6).
6. PAVED DRIVEWAYS OR WALKWAY AREAS WHICH ARE OPEN CUT SHALL BE RECONSTRUCTED AS INDICATED ON THE CIVIL DETAILS, OR AS DIRECTED BY THE VILLAGE'S REPRESENTATIVE. COMPACTED STRUCTURAL BACKFILL (IDOT CA-6) SHALL BE PROVIDED IN LIEU OF COMMON BACKFILL, AS SHOWN ABOVE, WHEN TRENCH IS LOCATED WITHIN 2 FT. OF PAVED AREA OR AGGREGATE SHOULDER.

TRENCH BACKFILL DETAILS
N.T.S.



NOTES:

1. EXACT LOCATION OF WATER SERVICES TO BE DETERMINED BY CONTRACTOR.
2. WATER SERVICE CONNECTION & FITTINGS TO CONFORM TO VILLAGE'S STANDARDS.
3. PROVIDE A MINIMUM OF 18" BETWEEN TAPS, AND BETWEEN TAP AND PIPE JOINT.
4. TEST EXISTING SERVICES FOR FLOW PRIOR TO INSTALLING NEW SERVICE.
5. FOR D.I. WATERMAINS PROVIDE A DIRECT SERVICE CONNECTION. FOR TAPPING PVC AND HDPE WATERMAINS PROVIDE A WIDE BAND BRASS SERVICE SADDLE (FORD BRASS SADDLE STYLE 202BS).

TYPICAL WATER SERVICE CONNECTION
N.T.S.

SANITARY SEWER NOTES

1. WHEREVER A SEWER CROSSES UNDER A WATERMAIN, THE MINIMUM VERTICAL DISTANCE FROM THE TOP OF THE SEWER TO THE BOTTOM OF THE WATERMAIN SHALL BE 18 INCHES. FURTHERMORE, A MINIMUM HORIZONTAL DISTANCE OF 10 FEET BETWEEN SANITARY SEWERS AND WATERMAINS SHALL BE MAINTAINED UNLESS: THE SEWER IS LAID IN A SEPARATE TRENCH, KEEPING A MINIMUM 18" VERTICAL SEPARATION; OR THE SEWER IS LAID IN THE SAME TRENCH WITH THE WATERMAIN LOCATED AT THE OPPOSITE SIDE ON A BENCH OF UNDISTURBED EARTH, KEEPING A MINIMUM 18" VERTICAL SEPARATION. IF EITHER THE VERTICAL OR HORIZONTAL DISTANCES DESCRIBED ABOVE CANNOT BE MAINTAINED, OR THE SEWER CROSSES ABOVE THE WATERMAIN, THE SEWER SHALL BE CONSTRUCTED TO WATERMAIN STANDARDS.
2. CONTRACTOR TO VERIFY RIM AND INVERT ELEVATIONS. RIM ELEVATIONS FOR MANHOLES AND VAULTS SHALL BE ADJUSTED TO MEET FINAL GRADE. THESE ADJUSTMENTS ARE TO BE MADE BY THE CONTRACTOR AND ANY ASSOCIATED COSTS FOR THESE ADJUSTMENTS ARE TO BE CONSIDERED INCIDENTAL. THESE ADJUSTMENTS TO FINISHED GRADE WILL NOT ALLEVIATE THE CONTRACTOR FROM ANY ADDITIONAL ADJUSTMENTS AS MAY BE REQUIRED BY THE OWNER OR VILLAGE UPON FINAL INSPECTION OF THE PROJECT. (FINAL GRADES AS MAY BE DETERMINED BY THE OWNER OR VILLAGE AT THE TIME OF FINAL INSPECTION MAY VARY FROM THOSE SHOWN ON THE PLANS.)
3. UNLESS OTHERWISE SHOWN ON THE DRAWINGS, ALL SANITARY SEWERS SHALL BE CONSTRUCTED OF PVC PIPE WITH PUSH-ON JOINTS CONFORMING TO ASTM D3139. THE GASKETS SHALL MEET THE REQUIREMENTS OF ASTM F477. THE FOLLOWING PIPE CLASSIFICATIONS SHALL BE USED FOR THE VARIOUS PIPE SIZES AND DEPTHS:

   AFOR DEPTHS UP TO FIFTEEN (15'-0") FEET, USE PVC SDR 26 (PR160) CONFORMING TO ASTM D2241.

   BFOR DEPTHS OVER FIFTEEN (15'-0") FEET, USE PVC DR 18 CONFORMING TO AWWA C900 FOR PIPE SIZES 12" AND SMALLER AND AWWA C905 DR 18 FOR PIPE SIZES 14" AND LARGER.
4. ALL SEWER PIPE BETWEEN MANHOLES SHALL BE OF THE SAME TYPE AND CLASSIFICATION.
5. SEWER TESTING AND ACCEPTANCE: ALL NEW SEWERS SHALL BE TESTED FOR LEAKAGE AND DEFLECTION IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR WATER & SEWER MAIN CONSTRUCTION IN ILLINOIS. ALL SEWER PIPING SHALL BE TESTED FOR LEAKAGE BY MEANS OF A LOW PRESSURE AIR TEST. ALL PVC SEWER PIPING SHALL BE TESTED FOR DEFLECTION BY MEANS OF THE 5% DEFLECTION TEST IN ACCORDANCE WITH ASTM D3034. DEFLECTION TESTING SHALL NOT BE PERFORMED SOONER THAN 30 DAYS AFTER INSTALLATION IS COMPLETE.
6. SANITARY SEWER MANHOLES SHALL BE OF THE PRECAST CONCRETE TYPE AND SHALL COMPLY WITH ASTM C-478 (SEE DETAIL). MANHOLES SHALL BE TESTED BEFORE THE RING AND COVER AND GRADE ADJUSTMENT RINGS ARE INSTALLED, AND AFTER BACKFILL AND COMPACTION IS COMPLETE. VACUUM TESTING OF MANHOLES SHALL BE PERFORMED IN ACCORDANCE WITH ASTM C1244.
7. UNLESS OTHERWISE SHOWN ON THE DRAWINGS, ALL FORCEMAINS SHALL BE CONSTRUCTED OF PVC PIPE WITH PUSH-ON JOINTS CONFORMING TO ASTM D3139 WITH GASKETS CONFORMING TO ASTM F477. FOR FORCEMAIN SIZES 12" AND SMALLER, USE PVC DR 18 CONFORMING TO AWWA C900.
8. FORCEMAIN PIPING AND RELATED FITTINGS AND VALVES SHALL BE HYDROSTATICALLY TESTED AT NOT LESS THAN 150% OF THE DESIGN WORKING PRESSURE. TESTS SHALL BE WITNESSED BY THE OWNER'S REPRESENTATIVE. DURATION OF THE TEST SHALL BE AT LEAST TWO (2) HOURS. MINIMUM REQUIREMENTS FOR THE TEST METHODS AND PROCEDURES SHALL BE AS FOLLOWS:

   AJHE CONTRACTOR SHALL PERFORM THE HYDROSTATIC TESTING OF PIPES AND PROVIDE ALL EQUIPMENT, MATERIALS, AND LABOR NECESSARY TO COMPLETE THE TESTING.

   BJEST PRESSURE SHALL BE HELD FOR A MINIMUM OF 2 HOURS AS REQUIRED WITH NO NOTICEABLE LOSS IN PRESSURE WHILE ALL JOINTS ARE VISUALLY INSPECTED FOR LEAKS. AFTER PRESSURE IS APPLIED, PRESSURIZING DEVICE MUST BE DISCONNECTED OR ISOLATED FROM THE SYSTEM DURING THE INSPECTION PERIOD. THERE SHALL BE NO ALLOWABLE LEAKAGE AND DEFECTS SHALL BE CORRECTED IMMEDIATELY. TESTING SHALL BE REPEATED AFTER DEFECTS HAVE BEEN CORRECTED UNTIL A SUCCESSFUL TEST HAS BEEN ACCOMPLISHED.

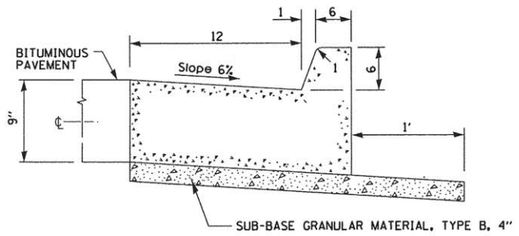
   CALL EQUIPMENT SHALL BE ISOLATED FROM THE SYSTEM DURING TESTING OF THE PIPING SYSTEM. ALL AIR SHALL BE VENTED FROM THE SYSTEM PRIOR TO APPICATION OF TEST PRESSURE FOR HYDROSTATIC TESTS.
9. ALL NUTS, BOLTS, AND MISCELLANEOUS HARDWARE USED UNDERGROUND SHALL BE ANSI TYPE 304 STAINLESS STEEL AS A MINIMUM.

EXCAVATION AND BACKFILL NOTES

1. THE CONTRACTOR SHALL EXAMINE THE CONTRACT DRAWINGS THOROUGHLY PRIOR TO BEGINNING ANY EXCAVATION, AND SHALL NOTIFY THE OWNER'S REPRESENTATIVE AT ONCE OF ANY DISCREPANCIES.
2. ALL WORK AREAS SHALL BE PROPERLY DRAINED DURING CONSTRUCTION. FINAL GRADES SHALL BE PROTECTED AGAINST DAMAGE FROM EROSION AND TRAFFIC.
3. THE EXCAVATION FOR STRUCTURE &/OR PIPE INSTALLATION SHALL BE KEPT DRY AT ALL TIMES DURING STRUCTURE/PIPE PLACEMENT. APPROPRIATE FACILITIES TO MAINTAIN THE DRY EXCAVATIONS/TRENCHES SHALL BE PROVIDED BY THE CONTRACTOR AND THE COST OF SUCH SHALL BE INCLUDED IN THE PRICES BID FOR THE VARIOUS ITEMS TO WHICH THEY PERTAIN.
4. DETAILED DRAWINGS FOR ANY SHEETING AND BRACING SHALL BE PROVIDED FOR REVIEW TO THE OWNER'S REPRESENTATIVE PRIOR TO IMPLEMENTATION OF THE METHOD. A TRENCH BOX SHALL BE AVAILABLE ON THE JOB SITE AT ALL TIMES, AND BE UTILIZED IN ACCORDANCE WITH OSHA STANDARDS.
5. SUITABLE EXCAVATED MATERIALS SUBJECT TO THE REVIEW OF THE OWNER'S REPRESENTATIVE MAY BE USED TO BACKFILL THE EXCAVATED AREAS OF THE SITE.
6. NO UNDERGROUND WORK SHALL BE COVERED UNTIL IT HAS BEEN REVIEWED BY OWNER.
7. TRENCH BACKFILL SHALL BE PROVIDED FOR THE FULL DEPTH ABOVE PIPELINES UNDER OR WITHIN TWO FEET OF PROPOSED OR EXISTING PAVEMENTS, UTILITIES, DRIVEWAYS, SIDEWALKS, AND BACK OF CURB. THE TRENCH BACKFILL SHALL CONSIST OF A GRANULAR MATERIAL MEETING IDOT CRUSHED STONE CA-6 GRADATION SPECIFICATIONS. THE TRENCH BACKFILL SHALL BE COMPACTED IN ACCORDANCE WITH IDOT STANDARD SPECIFICATIONS AND SHALL EXTEND A MINIMUM OF ONE FOOT ON EITHER SIDE OF THE PIPE, OR AS OTHERWISE SHOWN OR SPECIFIED HEREIN.
8. BACKFILL IN PIPE TRENCHES IN OPEN AREAS AND LANDSCAPED AREAS SHALL CONSIST OF SUITABLE EXCAVATED MATERIALS PLACED IN LIFTS AND COMPACTED TO A MINIMUM OF 90 PERCENT OF THE MAXIMUM DENSITY OBTAINABLE PER ASTM D 1557.
9. THE CONTRACTOR SHALL REMOVE ALL EXCESS UTILITY SPOIL. THIS WORK SHALL BE INCLUDED IN THE COST OF THE CONTRACT.
10. STOCKPILING OF EXCAVATED MATERIALS ON SITE SHALL BE MINIMIZED TO THE GREATEST EXTENT PRACTICABLE. THE CONTRACTOR SHALL PROCEED PROMPTLY WITH UNDERGROUND WORK IMMEDIATELY FOLLOWING EXCAVATION, AND SHALL BACKFILL ALL EXCAVATIONS IMMEDIATELY FOLLOWING APPROVAL OF COMPLETED WORK BY THE OWNER.

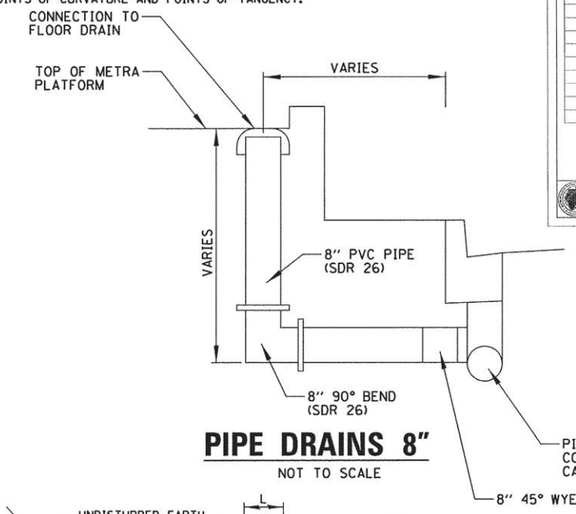
WATERMAIN AND APPURTANENCES

1. ALL WATER DISTRIBUTION SYSTEM MATERIALS AND CONSTRUCTION SHALL CONFORM WITH SECTION 41 OF "THE STANDARD SPECIFICATIONS FOR WATER & SEWER MAIN CONSTRUCTION IN ILLINOIS".
2. PIPE MATERIALS: ALL WATERMAINS FOR OPEN TRENCH INSTALLATION SHALL BE CONSTRUCTED OF DUCTILE PIPE (DIP) CLASS 52, CEMENT LINED ASPHALTIC COATING OR PAINT, CONFORMING TO ANSI A21.51/AWWA C151 WITH PUSH ON JOINTS CONFORMING TO ANSI A21.11/AWWA C111. ALL FITTINGS SHALL BE MECHANICAL JOINT AND IRON OR DUCTILE IRON CONFORMING TO ANSI A21.53/AWWA C153 AND ANSI A21.4/AWWA C104. ALL GASKETS FOR MECHANICAL AND PUSH ON JOINTS SHALL CONFORM TO ANSI A21.11/AWWA C111. SEE "STEEL CASING PIPE DETAIL" FOR WATERMAIN INSTALLED IN CASING PIPE.
3. ALL DIRECT BURIED UNDERGROUND IRON OR DUCTILE IRON PIPING, PIPE FITTINGS, AND APPURTENANCES SHALL BE ENCASED WITH POLYETHYLENE WRAP WITH TAPED JOINTS. POLYETHYLENE WRAP SHALL BE EQUAL TO ASTM 1248 AND SHALL CONFORM TO APPLICABLE REQUIREMENTS OF AWWA C105.
4. A MINIMUM DEPTH OF COVER OF FIVE AND A HALF (5'-6") FEET SHALL BE MAINTAINED OVER THE WATER LINES. THE MAXIMUM COVER SHALL NOT BE GREATER THAN EIGHT (8'-0") FEET EXCEPT AT SPECIAL CROSSINGS.
5. ALL CONNECTIONS FOR EXTENDING EXISTING WATERMAINS SHALL BE MADE AS PRESSURE CONNECTIONS UNLESS OTHERWISE SPECIFIED ON THE DRAWINGS.
6. TESTING: ALL WATERMAINS SHALL BE PRESSURE TESTED, FLUSHED, AND DISINFECTED IN ACCORDANCE WITH "THE STANDARD SPECIFICATIONS FOR WATER & SEWER MAIN CONSTRUCTION IN ILLINOIS", AND AWWA STANDARDS (C600 AND C651). EACH VALVE SECTION SHALL BE PRESSURE TESTED FOR A MINIMUM OF 2 HOURS AT A TEST PRESSURE OF 150 PSI. ALLOWABLE LEAKAGE SHALL BE WITHIN THE LIMITS DETERMINED BY "THE STANDARD SPECIFICATIONS FOR SEWER AND WATER MAIN CONSTRUCTION IN ILLINOIS". AT NO TIME IS THERE TO BE ANY VISIBLE LEAKAGE FROM THE WATERMAIN. AFTER THE PRESSURE TEST IS PASSED AND PRIOR TO DISINFECTION, THE MAIN SHALL BE THOROUGHLY FLUSHED. IF THERE IS NO HYDRANT AT THE END OF THE MAIN, THE CONTRACTOR SHALL PROVIDE A TEMPORARY TAP LARGE ENOUGH TO EFFECT A VELOCITY IN THE MAIN OF AT LEAST TWO AND A HALF (2 1/2) FEET PER SECOND. FOLLOWING SUCESSFUL PRESSURE TESTING AND DISINFECTION PROCEDURES, WATER SAMPLES SHALL BE COLLECTED FOR BACTERIOLOGICAL ANALYSIS ON TWO CONSECUTIVE DAYS TAKEN AT 24 HOUR INTERVALS. SATISFACTORY RESULTS OF THE ANALYSES SHALL BE OBTAINED PRIOR TO PLACING THE WATERMAIN INTO SERVICE. DISINFECTION SHALL BE PERFORMED BY AN INDEPENDENT FIRM WITH EXPERIENCE IN THE METHODS OF THIS OPERATION. THE DISINFECTION FIRM AND THE LABORATORY SHALL BE SUBJECT TO THE APPROVAL OF THE SUPERINTENDENT OF WATER AND SEWER. DISINFECTION SHALL BE REPEATED AT THE EXPENSE OF THE CONTRACTOR UNTIL SATISFACTORY RESULTS ARE OBTAINED.
7. VALVE VAULTS: THE FRAME AND LID FOR VALVUE VAULTS SHALL BE "WATER" EMBOSSED ON LID JOINTS FOR AULTS SHALL BE OF BUTYL RUBBER-TYPE GASKET CONFORMING TO ASTM C443. ADJUSTING RINGS SHALL NOT EXCEED 8 INCHES.
8. VALVES: ALL VALVES SHALL TURN COUNTER-CLOCKWISE TO OPEN. ALL VALVES 12" OR SMALLER SHALL BE RESILIENT WEDGE GATE TYPE, RATED FOR 250 PSI WORKING PRESSURE AND CONFORM TO AWWA C-509 AND C515 SPECIFICATIONS. ALL FITTINGS AND VALVE END CONNECTIONS SHALL BE MECHANICAL JOINT AND SHALL BE RESTRAINED USING "MEGALUG" OR APPROVED EQUAL RESTRAINING GLANDS. ALL NUTS AND BOLTS USED IN VALVE VAULTS (i.e. EXPOSED PIPING) FOR MECHANICAL JOINTS AND RESTRAINT DEVICES SHALL BE TYPE 304 STAINLESS STEEL. ALL INTERNAL AND EXTERNAL SURFACES SHALL HAVE FUSION BONDED EPOXY COATING. ALL VALVES LARGER THAN 12" SHALL BE BUTTERFLY VALVES. BUTTERFLY VALVES SHALL BE SHORT BODY CONFORMING TO THE AWWA C504 FOR RUBBER SEATED BUTTERFLY VALVES FOR CLASS 150B.
9. CORPORATION STOPS: CORPORATION STOPS SHALL BE SIZED APPROPRIATELY FOR THE INTENDED USE (1 INCH MIN), CONFORMING TO AWWA C-800 AND SHALL INCLUDE BEND TAIL PIECE AND COMPRESSION FITTINGS. TAPPING SADDLES SPECIFICALLY DESIGNED FOR USE WITH DIP PIPE MAY BE REQUIRED IN CONJUNCTION WITH LARGER CORPORATION STOPS. TAPPING SADDLES SHALL BE SMITH-BLAIR VINYL COATED STAINLESSSTEEL BOLTS, OR JCM. THE BOLTS SHALL BE TIGHTENED IN ACCORDANCE WITH THE MANUFACTURER'S TORQUE GUIDELINES. CORPORATION STOPS SHALL BE INSTALLED ON BOTH SIDES OF THE VALVE WITHIN VAULTS (SEE DETAIL).
10. MAXIMUM DEFLECTION AT PIPE AND FITTING JOINTS SHALL NOT EXCEED CURRENT MANUFACTURER'S RECOMMENDATIONS.
11. WATERMAIN FITTINGS (I.E. BENDS, ELBOWS, TEES, REDUCERS, ETC.) MAY NOT BE SPECIFICALLY REFERENCED ON THE PLANS. HOWEVER, THEY ARE TO BE CONSIDERED INCIDENTAL AND INCLUDED IN THE LINEAR FOOTAGE COST OF THE WATERMAIN.
12. THRUST BLOCKING SHALL BE INSTALLED ON WATERMAINS AT ALL BENDS, TEES, CAPS, VALVES, AND HYDRANTS. FITTING THAT ARE DOWNTURNED OR UNABLE TO BE "THRUST-BLOCKED" AGAINST UNDISTURBED SOIL SHALL BE RESTRAINED WITH FIELD-LOK. IN ADDITION, EXCLUDING THE JOINTS OF ANY VALVE, BEND, CROSS OR TEE, THE FIRST TWO JOINTS BEFORE AND BEYOND ANY VALVE, BEND, CROSS, OR TEE SHALL BE RESTRAINED.
13. CONTRACTOR TO VERIFY RIM AND INVERT ELEVATIONS. RIM ELEVATIONS FOR VAULTS SHALL BE ADJUSTED TO MEET FINAL GRADE. THESE ADJUSTMENTS ARE TO BE MADE BY THE CONTRACTOR AND ANY ASSOCIATED COSTS FOR THESE ADJUSTMENTS ARE TO BE CONSIDERED INCIDENTAL. THESE ADJUSTMENTS TO FINISHED GRADE WILL NOT ALLEVIATE THE CONTRACTOR FROM ANY ADDITIONAL ADJUSTMENTS AS MAY BE REQUIRED BY THE OWNER OR VILLAGE UPON FINAL INSPECTION OF THE PROJECT. (FINAL GRADES AS MAY BE DETERMINED BY THE OWNER OR VILLAGE AT THE TIME OF FINAL INSPECTION MAY VARY FROM THOSE SHOWN ON THE PLANS.)
14. WATERMAIN CONSTRUCTION WILL BE OCCURRING ADJACENT TO EXISTING UTILITY POLES. CONTRACTOR SHALL BRACE EXISTING POLES AS REQUIRED FOR CONSTRUCTION OF WATERMAIN OR AS DIRECTED BY UTILITY COMPANY. THE COST OF BRACING POLES SHALL BE INCLUDED IN THE COST OF WATERMAIN INSTALLATION. EMBOSSED ON THE LID. VAULTS SHALL CONFORM TO ASTM C478.



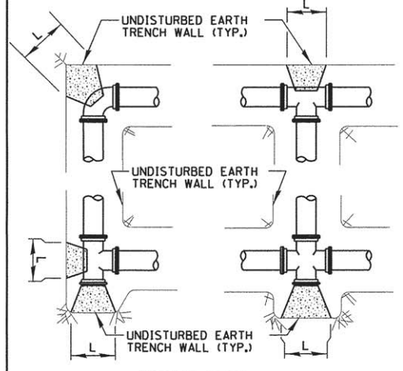
CURB AND GUTTER B-6.12

NOTE:
CONTRACTION JOINTS ARE TO BE SPACED EVERY 15 FEET. EXPANSION JOINTS ARE TO BE PLACED EVERY 90 TO 105 FEET. 5 FEET EACH SIDE OF CURB STRUCTURES. POINTS-OF-CURVATURE AND POINTS-OF-TANGENCY.

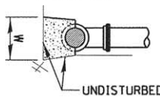


PIPE DRAINS 8"

NOT TO SCALE



TYPICAL PLAN



TYPICAL SECTIONS

NOTES:

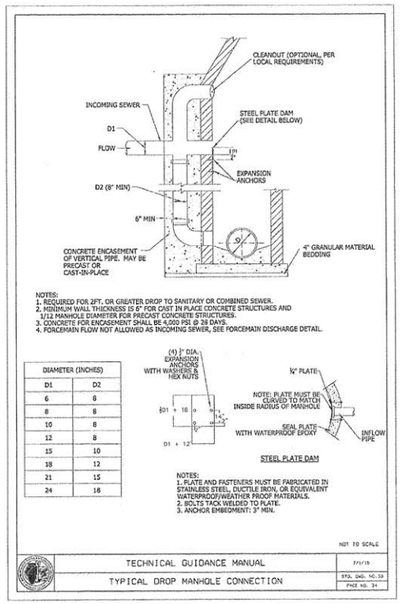
1. PROVIDE PRECAST OR CAST-IN-PLACE CONCRETE THRUST BLOCKS OF ADEQUATE SIZE AND THRUST BEARING SURFACE TO PREVENT MOVEMENT OF PIPELINE UNDER PRESSURE. SEE TABLE FOR BEARING SURFACE AREA.
2. PLACE THE BASE AND THRUST BEARING SIDES OF THRUST BLOCK DIRECTLY AGAINST UNDISTURBED EARTH.
3. PLACE THRUST BLOCKING SO THE FITTING JOINTS WILL BE ACCESSIBLE FOR REPAIR.
4. THE LENGTH (L) OF THE THRUST BLOCK SHALL BE APPROXIMATELY TWICE THE WIDTH (W).
5. THRUST BLOCKS ARE BASED ON A 2000 PSF SOIL BEARING LOAD AND 100 PSI THRUST INSIDE THE PIPE.
6. CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF NOT LESS THAN 2000 PSI AFTER 28 DAYS.

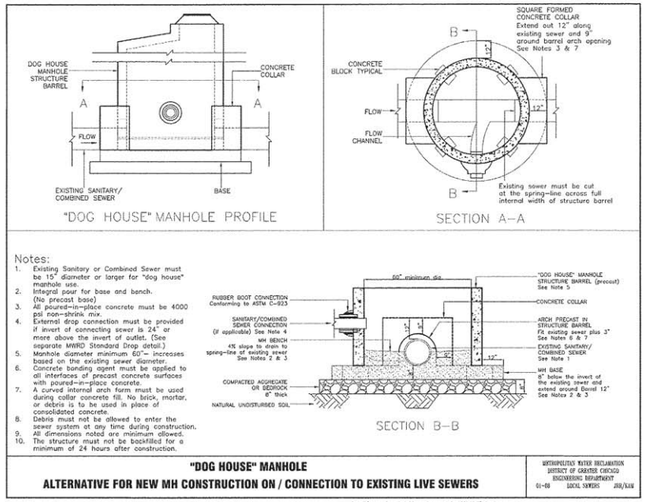
PIPE SIZE	PIPE BEND IN DEGREES				PLUG OR TEE
	90	45	22.5	11.25	
8"	5 SQ. FT.	3 SQ. FT.	2 SQ. FT.	1 SQ. FT.	3 SQ. FT.
10"	7 SQ. FT.	4 SQ. FT.	2 SQ. FT.	1 SQ. FT.	5 SQ. FT.
12"	10 SQ. FT.	5 SQ. FT.	3 SQ. FT.	2 SQ. FT.	7 SQ. FT.
14"	13 SQ. FT.	7 SQ. FT.	4 SQ. FT.	2 SQ. FT.	9 SQ. FT.
16"	17 SQ. FT.	9 SQ. FT.	5 SQ. FT.	2 SQ. FT.	12 SQ. FT.
20"	26 SQ. FT.	14 SQ. FT.	7 SQ. FT.	4 SQ. FT.	18 SQ. FT.

BEARING SURFACE AREA TABLE

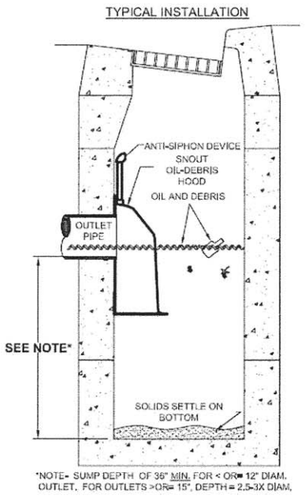
TYPICAL THRUST BLOCK INSTALLATIONS

N.T.S.



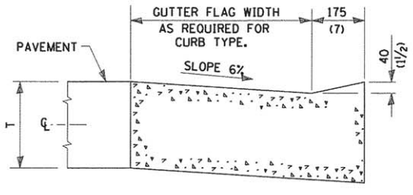


TYPICAL INSTALLATION



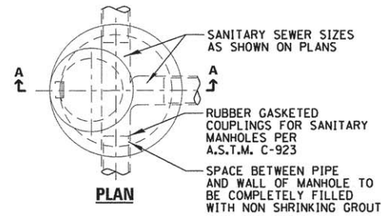
SNOUT DETAIL

N.T.S.

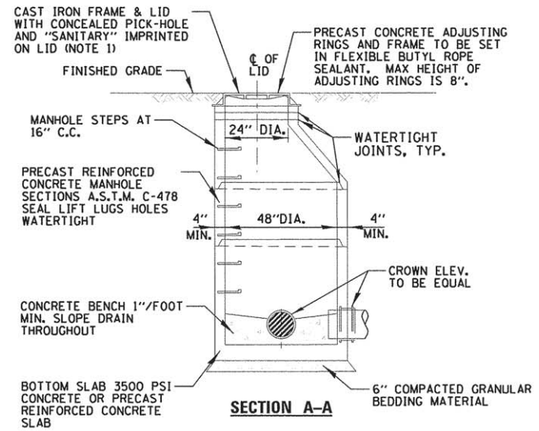


DEPRESSED CURB (TYPICAL)

N.T.S.



PLAN



SECTION A-A

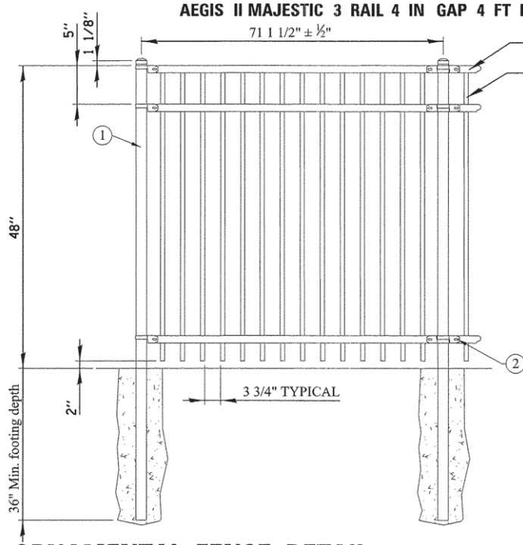
NOTES;

1. MANHOLE LIDS SHALL BE NEENAH R-1077A OR EJIW 1022-1, SELF SEALING LID, NON-ROCKING TYPE.
2. EZ-STICK GASKET SHALL BE INSTALLED AT ALL JOINTS.
3. EXTERNAL CHIMNEY SEALS TO BE CANUSA, INFISHIELD.
4. EXTERNAL JOINT SEALS TO BE MAC-WRAP.
5. STEPS TO BE NEENAH R-1980-C CAST IRON OR EJIW 8501.

STANDARD SANITARY SEWER MANHOLE

N.T.S.

AEGIS II MAJESTIC 3 RAIL 4 IN GAP 4 FT H 6 FT LONG PANEL



② PANEL BRACKET OPTIONS		① POST TO POST 6' NOMINAL	
	BX302 UNIVERSAL BOULEVARD BRACKET (AS SHOWN)	*71½" ± ½"	2½"☑
	BX303 UNIVERSAL BOULEVARD BRACKET	*72" ± ½"	3"☑
	BX301 FLAT MOUNT BRACKET	*71½" ± ½"	2½"☑
		*72" ± ½"	3"☑
	BX304 SWIVEL BRACKET**	*71½" ± ½"	2½"☑
		*72" ± ½"	3"☑

**NOTE:
WHEN USING SWIVEL BRACKETS ON EITHER OR BOTH ENDS OF A PANEL INSTALLATION, CARE MUST BE TAKEN TO ENSURE THE SPACING BETWEEN POST AND ADJOINING PICKETS MEETS APPLICABLE CODES. THIS MAY REQUIRE TRIMMING ONE OR BOTH ENDS OF THE PANEL AS NEEDED.

POST NOTE:
IN LOCATIONS SUBJECT TO FREEZING, WHERE POSTS ARE GROUTED INTO CORE-DRILLED HOLES, A ¼" DIAMETER HOLE SHOULD BE DRILLED IN THE POST APPROXIMATELY ½" ABOVE ELEVATION TO ALLOW FOR DRAINAGE OF BUILT-UP GROUND WATER. THE DRILLED HOLE MUST BE WIPED CLEAN AND DRY AND SPRAYED WITH AMERISTAR ZINC RICH PRIMER AND AMERISTAR COLOR MATCH FINISH.

FROST LINE:
FOOTER DEPTH SHOWN IS MINIMUM RECOMMENDATION. IN SOME CASES LOCAL RESTRICTIONS OF FREEZING WEATHER CONDITIONS MAY REQUIRE A GREATER DEPTH.

•PANEL RAKING:
DRAWING SHOWS FENCE PANEL AT LEVEL GROUND ELEVATION: FOR INSTALLATIONS THAT MUST BE RAKED TO FOLLOW SLOPING GRADES, THE POST SPACING DIMENSION SHOWN MUST BE MEASURED ALONG THE GRADE.

ORNAMENTAL FENCE DETAIL

N.T.S.

VILLAGE OF MAYWOOD
40 MADISON STREET
MAYWOOD, IL 60153

USER NAME = mmichalowicz	DESIGNED - MBT	REVISED -	
	DRAWN - MBT	REVISED -	
PLOT SCALE = 20'	CHECKED - MEK	REVISED -	
PLOT DATE = 5/20/2016	DATE - 01/25/16	REVISED -	

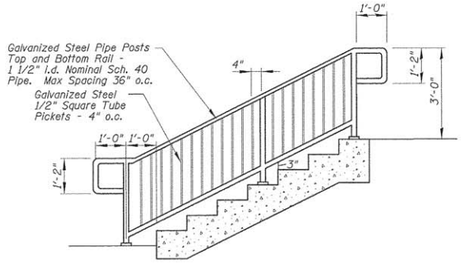
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAYWOOD METRA STATION
CIVIL DETAILS

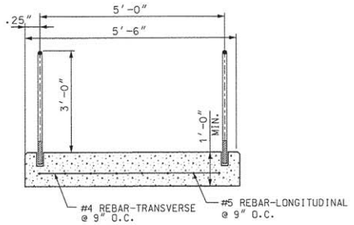
SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-00136-00-RR	COOK	65	18
		CONTRACT NO. 61C74		
	ILLINOIS FED. AID PROJECT			

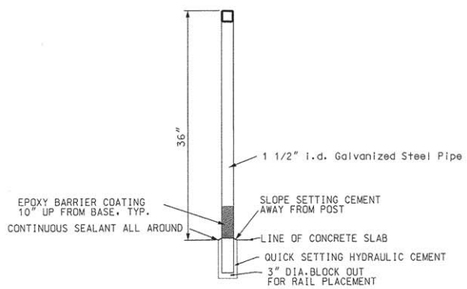
FILE NAME = N:\MAYWOOD\130128\Maywood-UPW\1234C304.DGN



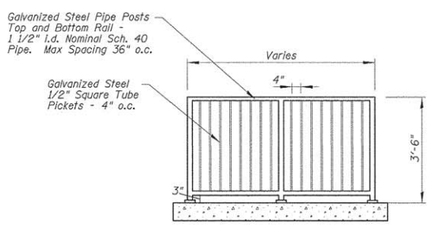
GALVANIZED STEEL
CENTER STAIR RAILING



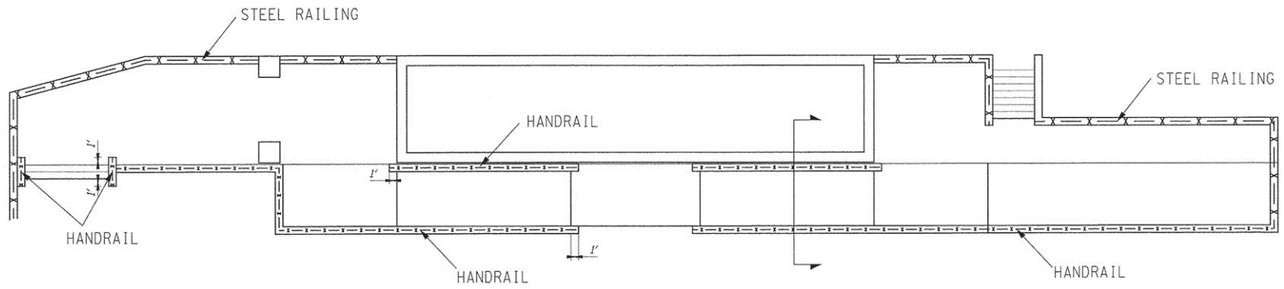
STAIR SECTION

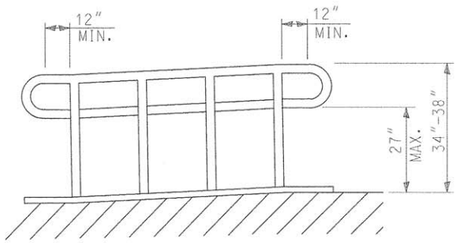


METAL RAIL TYPICAL SECTION AT STAIR

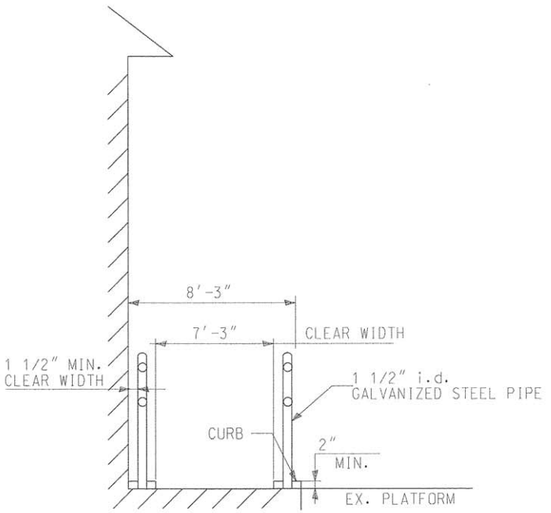


GALVANIZED STEEL
PLATFORM RAILING





ELEVATION



SECTION

HANDRAIL DETAIL AT
TEMPORARY RAMP

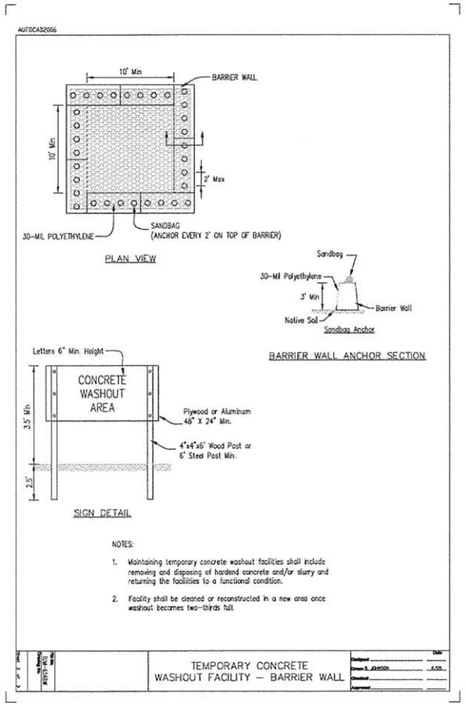
NOTES:

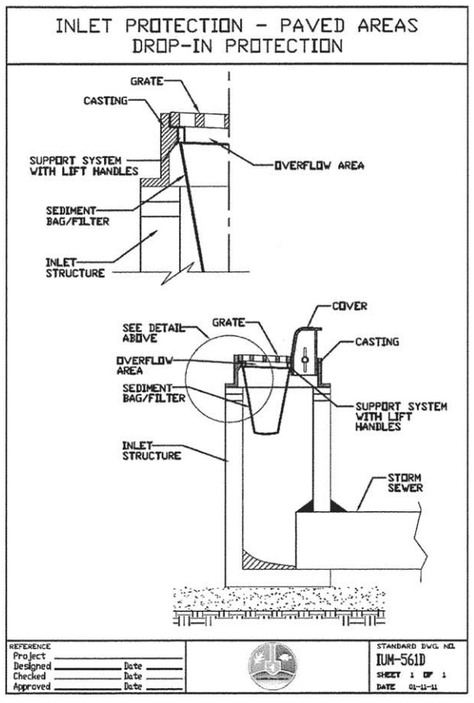
1. ALL STAIRS AND HANDRAILS SHALL COMPLY WITH ILLINOIS ACCESSIBILITY CODE.
2. SEE STRUCTURAL DETAILS FOR STAIR REINFORCEMENT DETAILS.
3. STEEL RAILING AND HANDRAIL IS INCLUDED IN DECORATIVE STEEL RAILING ITEM.

VILLAGE OF MAYWOOD 40 MADISON STREET MAYWOOD, IL 60153	USER NAME = mmichalowicz	DESIGNED - MBT	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAYWOOD METRA STATION CIVIL DETAILS
		DRAWN - MBT	REVISED -		
	PLOT SCALE = 10'	CHECKED - MEK	REVISED -		
	PLOT DATE = 1/22/2016	DATE - 01/25/16	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-00136-00-RR	COOK	65	19
		CONTRACT NO. 61C74		
	ILLINOIS FED. AID PROJECT			

FILE NAME = N:\MAYWOOD\130128\Maywood-DPW\1234C303.DGN





SOIL EROSION AND SEDIMENT CONTROL PLAN

1. The existing land cover is paved concrete alley within a residential area. There are no flood protection areas, site discharge locations, or points of discharge to Jurisdictional Waters of the U.S. Soil data is included in the specifications and generally consists of CLAY.

2. A NPDES ILR–10 permit is not required since the project is located in a combined sewer area and no stormwater discharges are tributary to a waterway.

3. Erosion and sediment will be controlled by installing inlet filters on the proposed inlets and also on the existing adjacent downstream inlets, or as directed by the ENGINEER. The ENGINEER will inspect the inlet filters and other erosion control measures for conformity on a weekly basis or after an 0.5 inch rainfall or greater.

4. Schedule of Construction Activities
   a. Installation of erosion control devices (prior to any soil disturbance)
   b. Installation of storm sewer system
   c. Pavement removal and earth excavation
   d. Installation of geogrid and subbase material
   e. Pavement installation
   f. Driveway installation and restoration items
   g. Removal of erosion control devices

5. There are no flood protection areas in or adjacent to the project.

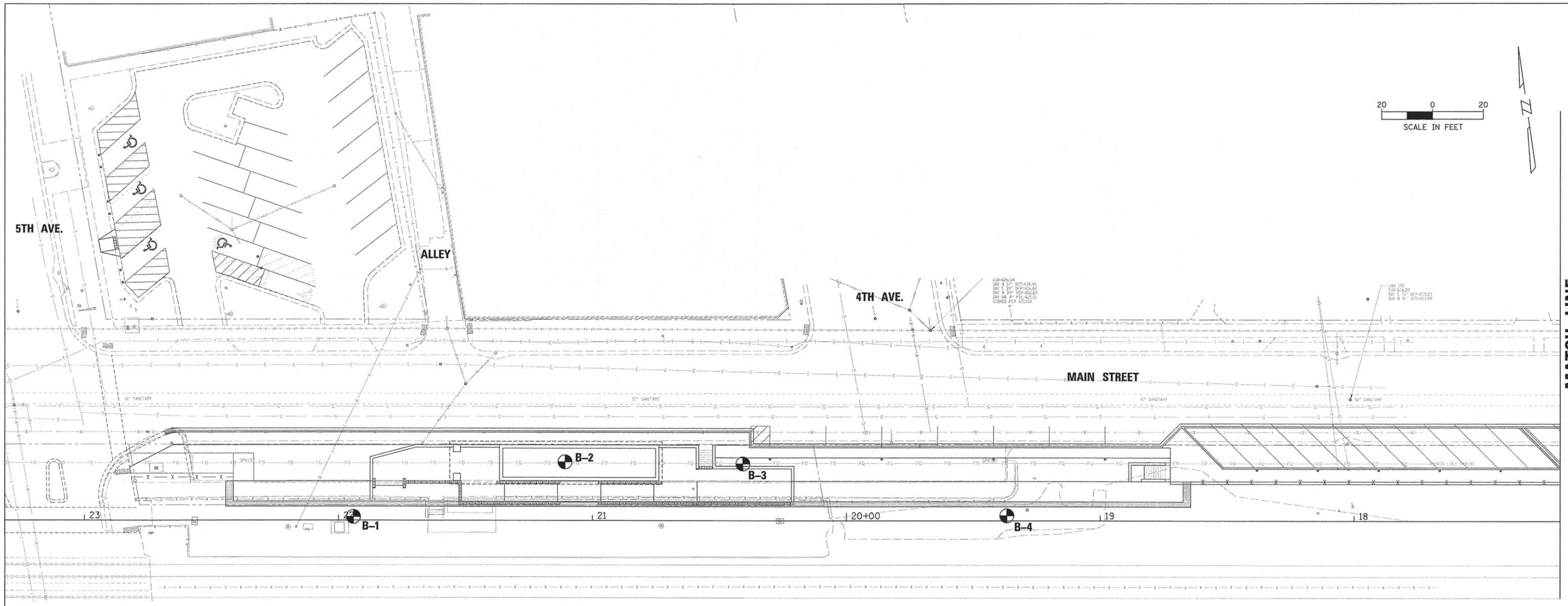
6. There are no stream crossings. Erosion and sediment control devices have been designed based on performance in past projects.

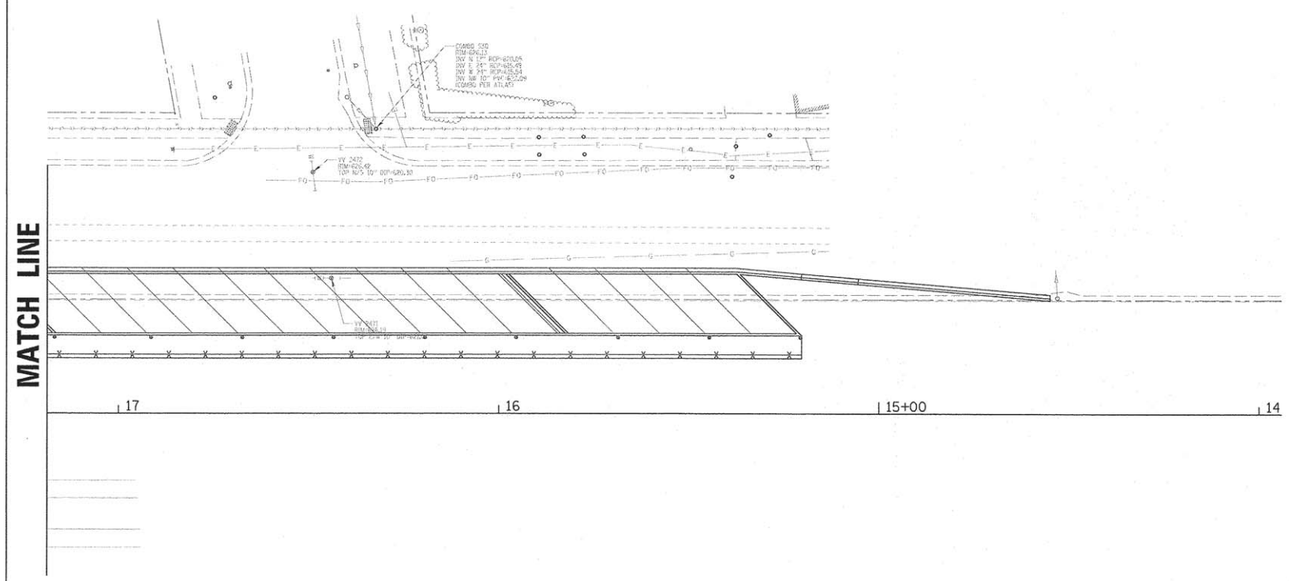
7. The erosion control devices will be inspected by the ENGINEER on a weekly basis or after an 0.5 inch rainfall or greater. Any issues will be communicated to the contractor who will have 48 hours to correct any deficiency.

8. The Contractor shall provide a contact for the implementation and maintenance of the site soil erosion and sediment control plan.

VILLAGE OF MAYWOOD 40 MADISON STREET MAYWOOD, IL 60153	USER NAME = mmichalowicz	DESIGNED - MBT	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAYWOOD METRA STATION CIVIL DETAILS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - MBT	REVISED -				13-00136-00-RR	COOK	65	20
	PLOT SCALE = 10'	CHECKED - MEK	REVISED -					CONTRACT NO. 61C74		
	PLOT DATE = 1/22/2016	DATE - 01/25/16	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT		

FILE NAME = N:\MAYWOOD\130120\Maywood-DPW\1234C306.DGN





VILLAGE OF MAYWOOD 40 MADISON STREET MAYWOOD, IL 60153	USER NAME = mmichalowicz	DESIGNED - MBT	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
		DRAWN - MBT	REVISED -	
	PLOT SCALE = 20'	CHECKED - MEK	REVISED -	
	PLOT DATE = 1/22/2016	DATE - 01/25/16	REVISED -	

MAYWOOD METRA STATION
SOIL BORING LOCATIONS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-00136-00-RR	COOK	65	21
		CONTRACT NO. 61C74		
	ILLINOIS FED. AID PROJECT			

FILE NAME = N:\MAYWOOD\130128\Maywood-UPW\1234C308.DGN

MATERIAL SERVICE TESTING

Christopher B. Burke Engineering, Ltd.
Metra, Maywood Station Improvements

Boring No. B-1
Project ID: CBE1402
Drafter: J. Smith
Page: 1 of 8

Driller: HTI
Drill Rig: CME 75
Drilling Completed: 7/15/2014
Surface Elevation 627.6
Water Level During: Dry
Water Level After: Dry

Sample	Recover y, in	Blow Count	Depth, ft	Graphic Log	Material Description	Q_p, tsf	W_c, %	Y_d, pcf	MS	Remarks
1			1		6" concrete 4" stone					
2	12.5"	1	2		brown/gray/trace dark gray silty clay, trace sand, trace gravel, tough POSSIBLE FILL (CL)	1.5	24.7	--	AS	
			3							
			4							
3	15"	5	5		brown/gray silty clay, trace sand, trace gravel, very tough CLAY (CL)	3	20.9	--	SS	
			6							
			7		brown/trace gray silty clay, trace sand, hard CLAY (CL)	4.25	23.3	--	SS	
4	22.5"	8	8							
			9		brown/trace gray silty clay, trace sand, trace gravel, hard CLAY (CL)	4.50	--	--	SS	
5	17.5"	14	10							
			11							
			12							
			13							
			14		gray very silty clay, trace gravel, hard CLAY (CL-ML)	4.5	17.8	--	SS	
6	19"	14	15							
			16							
			17							
			18							
			19		gray silty clay, little sand and gravel, sand & gravel layer, damp, very tough CLAY (CL)	2.75	14.3	--	SS	
7	18.5"	14	20							
			21							
			22							
			23							
			24		gray silt, trace sand, trace gravel, medium dense SILT (ML)	--	--	--	SS	
8	24"	29	25							

continued

MATERIAL SERVICE TESTING

Christopher B. Burke Engineering, Ltd.
Metra, Maywood Station Improvements

Boring No. B-1
Project ID: CBE1402
Drafter: J. Smith
Page: 2 of 8

Driller: HTI
Drill Rig: CME 75
Drilling Completed: 7/15/2014
Surface Elevation 627.6
Water Level During: Dry
Water Level After: Dry

Sample	Recover y, in	Blow Count	Depth, ft	Graphic Log	Material Description	Q_p, tsf	W_c, %	Y_d, pcf	MS	Remarks
			26		continued					
			27							
			28							
			29							
9	24"	17	30		gray sandy silty clay, little gravel, very tough CLAY (CL)	2.75	10.1	--	SS	

EOB

Legend:
- Water Level While Sampling
- Water Level After Drilling
- **Qp** Estimated Unconfined Compressive Strength Based Upon Calibrated Penetrometer Reading, tons/ft²
- **MS** Method of Sampling
- **SS** Split Spoon
- **Wc** Moisture Content, %
- **WS** While Sampling
- **ST** Shelby Tube
- Y_d Dry Density, pounds/ft³
- **WD** While Drilling
- **HA** Hand Auger

OFC 921 W. Van Buren St., Suite 210, Chicago, IL 60607 | **LAB** 2462 Delta Lane, Elk Grove Village, IL 60007
P 847.787.0320 | F 847.787.0321 | **W** www.materialservicetesting.com

MATERIAL SERVICE TESTING

Christopher B. Burke Engineering, Ltd.
Metra, Maywood Station Improvements

Boring No. B-2
Project ID: CBE1402
Drafter: J. Smith
Page: 3 of 8

Driller: HTI
Drill Rig: CME 75
Drilling Completed: 7/15/2014
Surface Elevation 626.3
Water Level During: Dry
Water Level After: Dry

Sample	Recover y, in	Blow Count	Depth, ft	Graphic Log	Material Description	Q_p, tsf	W_c, %	Y_d, pcf	MS	Remarks
1			1		5" asphalt 9" stone					
2	4"	4	2		brown/gray sandy silty clay, little gravel, very tough POSSIBLE FILL (CL)	2	18.1	--	AS	
			3							
			4		brown/gray silty clay, trace sand, little gravel, very tough POSSIBLE FILL (CL)	2.25	--	--	SS	
3	11"	2	5							
			6							
			7							
			8		brown silty clay, trace sand, trace gravel, hard CLAY (CL)	4.25	18.9	--	SS	
4	16"	7	9							
			10							
			11			4.50	--	--	SS	
5	24"	16	12							
			13							
			14							
			15		gray silty clay, trace sand, trace gravel, hard CLAY (CL)	4.5+	14.4	--	SS	
6	16.5"	15	16							
			17							
			18							
			19		gray silty clay, trace sand, trace gravel, silt seams, hard CLAY (CL)	4.25	--	--	SS	
7	22"	9	20							

cont.

Legend:
- Water Level While Sampling
- Water Level After Drilling
- **Qp** Estimated Unconfined Compressive Strength Based Upon Calibrated Penetrometer Reading, tons/ft²
- **MS** Method of Sampling
- **SS** Split Spoon
- **Wc** Moisture Content, %
- **WS** While Sampling
- **ST** Shelby Tube
- Y_d Dry Density, pounds/ft³
- **WD** While Drilling
- **HA** Hand Auger

MATERIAL SERVICE TESTING

Christopher B. Burke Engineering, Ltd.
Metra, Maywood Station Improvements

Boring No. B-2
Project ID: CBE1402
Drafter: J. Smith
Page: 4 of 8

Driller: HTI
Drill Rig: CME 75
Drilling Completed: 7/15/2014
Surface Elevation 626.3
Water Level During: Dry
Water Level After: Dry

Sample	Recover y, in	Blow Count	Depth, ft	Graphic Log	Material Description	Q_p, tsf	W_c, %	Y_d, pcf	MS	Remarks
			21							
			22							
			23							
			24		gray very silty clay, trace sand, trace gravel, hard CLAY (CL-ML)	4.5+	12.2	--	SS	
8	20"	15	25							
			26							
			27							
			28							
			29		gray sandy silt, trace gravel, loose SILT (ML)	--	13.7	--	SS	
9	18"	5	30							

EOB

Legend:
- Water Level While Sampling
- Water Level After Drilling
- **Qp** Estimated Unconfined Compressive Strength Based Upon Calibrated Penetrometer Reading, tons/ft²
- **MS** Method of Sampling
- **SS** Split Spoon
- **Wc** Moisture Content, %
- **WS** While Sampling
- **ST** Shelby Tube
- Y_d Dry Density, pounds/ft³
- **WD** While Drilling
- **HA** Hand Auger

MATERIAL SERVICE TESTING

Christopher B. Burke Engineering, Ltd.
Metra, Maywood Station Improvements

Boring No. B-3
Project ID: CBE1402
Drafter: J. Smith
Page: 5 of 8

Driller: HTI
Drill Rig: CME 75
Drilling Completed: 7/15/2014
Surface Elevation 626.7
Water Level During: Dry
Water Level After: Dry

Sample	Recover y, in	Blow Count	Depth, ft	Graphic Log	Material Description	Q_p, tsf	W_c, %	Y_d, pcf	MS	Remarks
1			1		5.5" asphalt 9" stone					
2	0	5	2		No Recovery	--	--	--	AS	
			3							
			4		brown/gray silty clay, trace sand, trace gravel, tough POSSIBLE FILL (CL)	1.75	20.3	--	SS	
3	19.5"	3	5							
			6							
			7		brown/trace gray silty clay, trace sand, trace gravel, hard CLAY (CL)	4.5+	17.3	--	SS	
4	21"	15	8							
			9							
			10		gray/trace brown silty clay, trace sand, trace gravel, hard CLAY (CL)	4.5+	--	--	SS	
5	19"	18	11							
			12							
			13							
			14							
			15		gray sandy silty clay, trace gravel, trace silt seams, hard CLAY (CL)	4.5+	--	--	SS	
6	15.5"	12	16							
			17							
			18							
			19		gray silty clay, trace sand, trace gravel, hard CLAY (CL)	4.5+	--	--	SS	
7	16"	17	20							

cont.

Legend:
- Water Level While Sampling
- Water Level After Drilling
- **Qp** Estimated Unconfined Compressive Strength Based Upon Calibrated Penetrometer Reading, tons/ft²
- **MS** Method of Sampling
- **SS** Split Spoon
- **Wc** Moisture Content, %
- **WS** While Sampling
- **ST** Shelby Tube
- Y_d Dry Density, pounds/ft³
- **WD** While Drilling
- **HA** Hand Auger

MATERIAL SERVICE TESTING

Christopher B. Burke Engineering, Ltd.
Metra, Maywood Station Improvements

Boring No. B-3
Project ID: CBE1402
Drafter: J. Smith
Page: 6 of 8

Driller: HTI
Drill Rig: CME 75
Drilling Completed: 7/15/2014
Surface Elevation 626.7
Water Level During: Dry
Water Level After: Dry

Sample	Recover y, in	Blow Count	Depth, ft	Graphic Log	Material Description	Q_p, tsf	W_c, %	Y_d, pcf	MS	Remarks
			21							
			22							
			23		gray silty clay and clayey silt, trace sand, trace gravel, very tough CLAY and SILT (CL-ML)	3.75	10.7	--	SS	
8	20.5"	31	24							
			25							
			26							
			27							
			28		gray very silty clay, trace sand, trace gravel, hard CLAY (CL)	4.5+	12.4	--	SS	
9	19.5"	21	29							
			30							

EOB

Legend:
- Water Level While Sampling
- Water Level After Drilling
- **Qp** Estimated Unconfined Compressive Strength Based Upon Calibrated Penetrometer Reading, tons/ft²
- **MS** Method of Sampling
- **SS** Split Spoon
- **Wc** Moisture Content, %
- **WS** While Sampling
- **ST** Shelby Tube
- Y_d Dry Density, pounds/ft³
- **WD** While Drilling
- **HA** Hand Auger

MATERIAL SERVICE TESTING

Christopher B. Burke Engineering, Ltd.
Metra, Maywood Station Improvements

Boring No. B-4
Project ID: CBE1402
Drafter: J. Smith
Page: 7 of 8

Driller: HTI
Drill Rig: CME 75
Drilling Completed: 7/15/2014
Surface Elevation 627.9
Water Level During: Dry
Water Level After: Dry

Sample	Recover y, in	Blow Count	Depth, ft	Graphic Log	Material Description	Q_p, tsf	W_c, %	Y_d, pcf	MS	Remarks
1			1		4" concrete 6" gravel					
2	8"	3	2		dark brown/brown/trace black silty clay, little sand, little gravel, tough FILL (CL)	1.5	--	--	AS	
			3							
			4		brown/gray silty clay, trace sand, hard CLAY (CL)	4.5	20.7	--	SS	
3	20"	7	5							
			6							
			7							
			8		brown silty clay, trace sand, trace gravel, hard CLAY (CL)	4.25	--	--	SS	
4	12"	6	9							
			10							
			11			4.50	11.1	--	SS	
5	20"	22	12							
			13							
			14							
			15		gray silty clay, trace sand, little gravel, hard CLAY (CL)	4.5+	--	--	SS	
6	18"	16	16							
			17							
			18							
			19		gray very silty clay, trace sand, trace gravel, hard CLAY (CL)	4.5+	--	--	SS	
7	24"	15	20							

cont.

Legend:
- Water Level While Sampling
- Water Level After Drilling
- **Qp** Estimated Unconfined Compressive Strength Based Upon Calibrated Penetrometer Reading, tons/ft²
- **MS** Method of Sampling
- **SS** Split Spoon
- **Wc** Moisture Content, %
- **WS** While Sampling
- **ST** Shelby Tube
- Y_d Dry Density, pounds/ft³
- **WD** While Drilling
- **HA** Hand Auger

MATERIAL SERVICE TESTING

Christopher B. Burke Engineering, Ltd.
Metra, Maywood Station Improvements

Boring No. B-4
Project ID: CBE1402
Drafter: J. Smith
Page: 8 of 8

Driller: HTI
Drill Rig: CME 75
Drilling Completed: 7/15/2014
Surface Elevation 627.9
Water Level During: Dry
Water Level After: Dry

Sample	Recover y, in	Blow Count	Depth, ft	Graphic Log	Material Description	Q_p, tsf	W_c, %	Y_d, pcf	MS	Remarks
			21							
			22							
			23		gray silty sandy clay, little gravel, hard and sand and gravel, medium dense CLAY, SAND/GRAVEL	4	--	--	SS	
8	18"	19	24							
			25							
			26							
			27							
			28		gray silty clay, very tough with sand and rock pieces, dense CLAY, SAND/ROCK	3.75	--	--	SS	
9	40	11"	29							
			30							

EOB

Legend:
- Water Level While Sampling
- Water Level After Drilling
- **Qp** Estimated Unconfined Compressive Strength Based Upon Calibrated Penetrometer Reading, tons/ft²
- **MS** Method of Sampling
- **SS** Split Spoon
- **Wc** Moisture Content, %
- **WS** While Sampling
- **ST** Shelby Tube
- Y_d Dry Density, pounds/ft³
- **WD** While Drilling
- **HA** Hand Auger

VILLAGE OF MAYWOOD
40 MADISON STREET
MAYWOOD, IL 60153

USER NAME = mmichalowicz	DESIGNED - MBT	REVISED -	
	DRAWN - MBT	REVISED -	
PLOT SCALE = 10'	CHECKED - MEK	REVISED -	
PLOT DATE = 1/22/2016	DATE - 01/25/16	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAYWOOD METRA STATION
BORING LOG

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-00136-00-RR	COOK	65	22
		CONTRACT NO. 61C74		
		ILLINOIS FED. AID PROJECT		

FILE NAME = N:\MAYWOOD\130128\Maywood-UPW1234C309.DGN

GENERAL NOTES

1. THE BUILDING CODE APPLICABLE TO THIS PROJECT IS THE INTER NATIONAL BUILDING CODE (IBC) 2003.
2. ALL DETAILS AND SECTIONS SHOWN ON THE DRAWINGS ARE TYPICAL AND SHALL BE USED WHEREVER A SIMILAR CONDITION OCCURS UNLESS NOTED OTHERWISE.
3. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS AS IT RELATES TO NEW CONSTRUCTION. CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE E/A.
4. THE STABILITY AND STRENGTH OF THE COMPLETED STRUCTURE DEPENDS UPON THE INTERACTION OF VARIOUS CONNECTED PARTS SUCH AS DIAPHRAGMS, BRACES AND/OR SHEAR WALLS. CONTRACTOR SHALL PROVIDE TEMPORARY BRACING AND/OR SHORING AS NECESSARY TO COMPLETE THE WORK.
5. DESIGN LOADS:

ROOF LOAD:	
DEAD LOAD	ACTUAL WEIGHT
ELECTRICAL/MECHANICAL	5 PSF
ROOF SNOW LOAD:	
GROUND SNOW LOAD (P_g)	20 PSF
SLOPED ROOF SNOW LOAD (P_f)	20 PSF
WIND LOAD:	
BASIC WIND SPEED	90 MPH
WIND LOAD IMPORTANCE FACTOR	1
WIND EXPOSURE CATEGORY	B
WIND DESIGN PRESSURE (P)	20 PSF
EARTHQUAKE LOADS:	
SITE CLASS	D
MAPPED SPEC. ACCEL. FOR SHORT PERIOD(Ss)	0.186
MAPPED SPEC. ACCEL. FOR 1 SEC (S1)	0.097
SEISMIC DESIGN CATEGORY	B
SEISMIC USE GROUP	I

SOIL BORINGS

1. FOR BORING LOGS AND FOUNDATION RECOMMENDATION SEE THE PROJECT GEOTECHNICAL REPORT.

EXCAVATION AND BACKFILLING

1. MINIMUM REQUIRED NET BEARING CAPACITY IS: 3000 SF
2. WHERE FOUNDATION IS OVER EXCAVATED, REMOVE ALL DISTURBED FOUNDATION SOIL AND REPLACE WITH LEAN CONCRETE OR COMPACTED STRUCTURAL BACKFILL.
3. OVEREXCAVATE UNSUITABLE FOUNDATION SOIL WHERE REQUIRED BY THE E/A AND REPLACE WITH COMPACTED STRUCTURAL BACKFILL. SEE SPECIFICATIONS.

REMOVAL AND PROTECTION

1. PROVIDE SHORING AND BRACING FOR STRUCTURAL ELEMENTS DURING PARTIAL REMOVAL TO AVOID ANY DAMAGE TO THE EXISTING FACILITIES.
2. EXISTING STRUCTURES SHALL BE PROTECTED FROM OVERLOADING DUE TO CONSTRUCTION LOADINGS. HEAVY EQUIPMENT SHALL NOT BE OPERATED CLOSE TO EXISTING TANKS TO AVOID HIGH LATERAL EARTH PRESSURES ON WALLS.
3. DAMAGE TO ADJACENT FACILITIES DURING CONSTRUCTION SHALL BE REPAIRED AT NO ADDITIONAL COST TO THE OWNER.

STRUCTURAL STEEL

1. FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES".
2. ALL WIDE FLANGE STRUCTURAL SHAPES SHALL CONFORM TO ASTM A992. ALL OTHER HOT ROLLED SHAPES SHALL CONFORM TO ASTM A36. ALL ANCHOR RODS SHALL CONFORM TO EITHER ASTM F1554 (GR. 55) WITH WELDABILITY SUPPLEMENT S1 OR ASTM A36.
3. ALL SQUARE AND RECTANGULAR HOLLOW STRUCTURAL SECTIONS (HSS) SHALL CONFORM TO ASTM A500 GRADE B, Fy = 46 KSI.
4. UNLESS OTHERWISE SHOWN ON THE DRAWINGS ALL BOLTED CONNECTIONS SHALL BE MADE WITH 3/4" DIAMETER ASTM A325 BOLTS AND SHALL BE SNUG TIGHTENED (ASTM A325 N).
5. BOLT INSTALLATION SHALL BE INSPECTED USING THE TURN OF NUT METHOD, OR AS AN ALTERNATE, TWIST-OFF TYPE A325 BOLTS MAY BE USED.
6. WELDED CONNECTIONS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ANSI/AWS D1.1 STRUCTURAL WELDING CODE, MADE WITH E70XX ELECTRODES AND PERFORMED BY CERTIFIED WELDERS.
7. ALL STRUCTURAL STEEL SHALL BE GIVEN ONE COAT OF PRIMER BEFORE LEAVING THE SHOP AND SHALL BE GIVEN TWO COATS OF FIELD PAINT. FIELD PAINT SHALL BE BY THE SAME MANUFACTURER OF THE PRIME COAT. OWNER TO APPROVE COLORS AND PAINT MANUFACTURER.
8. ALL BEAMS SHALL BE FABRICATED WITH NATURAL CAMBER UP. PROVIDE ADDITIONAL CAMBER AS NOTED ON THE DRAWINGS.

CAST-IN-PLACE CONCRETE

1. CONCRETE WORK ON THIS PROJECT SHALL CONFORM TO ALL REQUIREMENTS OF THE LATEST EDITION ACI 301, STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE, PUBLISHED BY THE AMERICAN CONCRETE INSTITUTE (ACI), EXCEPT AS MODIFIED BY THE REQUIREMENTS OF THESE CONTRACT DOCUMENTS.
2. ALL CONCRETE SHALL BE PROVIDED WITH A MINIMUM ULTIMATE COMPRESSIVE STRENGTH AT 14 DAYS ($f'c$) OF:

   4000 PSI - FOR SLAB-ON-GRADE
   4000 PSI - FOR BUILDING FOUNDATION AND RETAINING WALLS

3. ALL EXTERIOR CONCRETE, BUILDING FOUNDATIONS AND CONCRETE SUBJECT TO FREEZE-THAW SHALL HAVE 4% TO 7% AIR CONTENT BY VOLUME MEASURED IN ACCORDANCE WITH ASTM C231. AIR ENTRAINING ADMIXTURES SHALL CONFORM TO ASTM C260. THE SLUMP SHALL NOT EXCEED 4 INCHES MEASURED IN ACCORDANCE WITH ASTM C143.
4. REINFORCING STEEL SHALL CONFORM TO ASTM A-615 GRADE 60. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185.
5. SUBMIT SHOP DRAWINGS OF THE REINFORCEMENT BARS PREPARED IN ACCORDANCE WITH ACI 315, DETAILS AND DETAILING OF CONCRETE REINFORCEMENT, AND SUBMITTED FOR REVIEW.
6. FOR ALL EXPOSED CONCRETE PROVIDE CLASS 1 (PLASTIC PROTECTED) BAR SUPPORTS AND SPACERS IN ACCORDANCE WITH THE ACI 315 DETAILING MANUAL.
7. WELDING OF REINFORCING BARS SHALL NOT BE PERMITTED.
8. NO CALCIUM CHLORIDE WILL BE USED IN CONCRETE.
9. DUSTING WITH ANY MATERIAL TO ABSORB SURFACE WATER IS PROHIBITED.
10. CURING PROCEDURES IN ACCORDANCE WITH ACI 301 SHALL CONTINUE FOR A PERIOD OF AT LEAST 7 DAYS.
11. DO NOT MIX SALT, CHEMICALS OR OTHER FOREIGN MATERIALS WITH THE CONCRETE TO PREVENT FREEZING. MAINTAIN THE TEMPERATURE OF THE CONCRETE ABOVE 50 DEGREES FAHRENHEIT FOR FIVE DAYS AFTER PLACEMENT.
12. COVER FOR REINFORCEMENT FOR CAST-IN-PLACE CONCRETE SHALL BE AS FOLLOWS:

	MINIMUM COVER, INCHES
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3
CONCRETE EXPOSED TO EARTH OR WEATHER:	
NO. 6 THROUGH NO. 18 BARS	2
NO. 5 BAR, W31 OR D31 WIRE, AND SMALLER	1 1/2
CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:	
SLABS, WALLS, JOISTS:	3/4
BEAMS, COLUMNS: PRIMARY REINFORCEMENT, TIES, STIRRUPS, SPIRALS	1 1/2

13. UNLESS SHOWN OTHERWISE ON PLANS, LAP SPLICES OF UNCOATED REINFORCEMENT BARS SHALL BE AS FOLLOWS:

	LAP LENGTH - INCHES (SMALLER BAR)*								
BAR SIZE	#3	#4	#5	#6	#7	#8	#9	#10	#11
A) HORIZONTAL BARS SO PLACED THAT MORE THAN 12 INCHES OF CONCRETE WILL BE CAST BELOW THE BARS	24	32	40	48	70	80	91	102	113
B) HORIZONTAL BARS SO PLACED THAT LESS THAN 12 INCHES OF CONCRETE WILL BE CAST BELOW THE BARS	19	25	31	37	54	62	70	79	87
C) VERTICAL BARS	19	25	31	37	54	62	70	79	87

* LAP LENGTHS ARE CALCULATED FOR UNCOATED BARS IN ACCORDANCE WITH ACI 318, CLASS B SPLICES AND $f'c$ = 4000 PSI. MINIMUM CLEAR SPACING BETWEEN BARS IS TWO BAR DIAMETERS AND MINIMUM COVER IS ONE BAR DIAMETER. FOR OTHER CONDITIONS, CALCULATE SPLICES IN ACCORDANCE WITH ACI 318, CLASS B SPLICES REQUIRED UNLESS NOTED OTHERWISE.

14. OBTAIN E/A'S WRITTEN APPROVAL FOR ANY ADDITIONAL OR RELOCATED CONSTRUCTION JOINTS OTHER THAN THOSE SHOWN ON DRAWINGS.
15. UNLESS SHOWN OTHERWISE, CHAMFER ALL EXPOSED EDGES OF CONCRETE 3/4 INCH.
16. SEE MECHANICAL, ELECTRICAL, ARCHITECTURAL, AND PIPING DRAWINGS AND EQUIPMENT MANUFACTURER'S SHOP DRAWINGS FOR LOCATION OF SLEEVES, HOLES, OPENINGS, RECESSES IN SLABS AND WALLS, CASTINGS, ANCHOR BOLTS, ETC.
17. PROVIDE CONTROL JOINTS IN ALL NON-STRUCTURAL SLABS ON GRADE. SEE SPECIFICATIONS.
18. VERTICAL CONTRACTION AND CONSTRUCTION JOINT SPACING IN WALLS SHALL NOT EXCEED 40 FEET.
19. ALL REINFORCEMENT IS TO BE EPOXY COATED.

MASONRY

1. MASONRY WORK ON THIS PROJECT SHALL CONFORM TO ALL REQUIREMENTS OF ACI 530.1, BUILDING CODE REQUIREMENTS AND SPECIFICATION FOR MASONRY STRUCTURES, EXCEPT AS MODIFIED BY THE REQUIREMENTS OF THESE CONTRACT DOCUMENTS.
2. CONCRETE MASONRY UNITS SHALL BE IN ACCORDANCE WITH ASTM C90, GRADE N, TYPE I.
3. BRICK SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI ON THE GROSS AREA.
4. MORTAR SHALL CONFORM TO ASTM C270, TYPE S MORTAR.
5. COMPRESSIVE STRENGTH OF CONCRETE MASONRY (F'M) SHALL BE 1500 PSI MINIMUM.
6. COMPRESSIVE STRENGTH OF BRICK MASONRY (F'M) SHALL BE 1500 PSI MINIMUM.
7. BAR REINFORCEMENT SHALL CONFORM TO ASTM A615 GRADE 60.
8. LENGTH OF BAR SPLICES SHALL BE EQUAL TO 48 BAR DIAMETERS.
9. JOINT REINFORCEMENT SHALL BE MADE OF COLD DRAWN WIRE AND SHALL CONFORM TO ASTM A82. JOINT REINFORCEMENT SHALL BE:

   3-9 GA, WIRE, TRUSS TYPE - FOR CAVITY WALLS
   3-9 GA, WIRE, LADDER TYPE - FOR COMPOSITE WALLS
   2-9 GA, WIRE, LADDER TYPE - FOR SINGLE WYTHE WALLS

10. JOINT REINFORCEMENT, TIES AND ANCHORS SHALL BE GALVANIZED IN ACCORDANCE WITH ACI 530.1.
11. JOINT REINFORCEMENT SHALL BE PLACED IN ALL MASONRY WALLS AND SPACED 16" O.C., UNLESS OTHERWISE NOTED.
12. ALL CELLS WITH REINFORCEMENT, BOND BEAMS, MASONRY LINTELS AND SILLS SHALL BE FULLY GROUTED. GROUT SHALL CONFORM TO ASTM C476 AND SHALL HAVE 28-DAY COMPRESSIVE STRENGTH OF 2000 PSI MINIMUM.
13. MASONRY CONTROL JOINTS SHALL BE PLACED IN REGULAR INTERVALS, AS SHOWN ON ARCHITECTURAL DRAWINGS. BOND BEAM REINFORCEMENT SHALL BE CARRIED THROUGH CONTROL JOINTS.
14. LAY CONCRETE MASONRY UNITS WITH FULL MORTAR COVERAGE ON HORIZONTAL AND VERTICAL FACE SHELLS AND WEBS.
15. WYTHES IN REINFORCED COMPOSITE BRICK WALLS SHALL BE BONDED WITH 9 GA. WIRE TIES SPACED 16" O.C. VERTICALLY AND 32" HORIZONTALLY. TIES IN ALTERNATE COURSES SHALL BE STAGGERED.
16. WYTHES IN MULTIPLE-WYTHE BRICK WALLS SHALL BE BONDED BY MEANS OF MASONRY HEADERS.
17. ALL BRICK/CMU WALLS WITH NO CAVITY ARE COMPOSITE. PARGE (BACK PLASTER) FIRST WYTHE LAID WITH MORTAR NOT LESS THAN 3/8" THICK.

LIGHT GAGE STEEL NOTES:

1. ALL AXIAL OR WIND LOADED LIGHT GAGE STEEL STUDS, TRACK, JOISTS, TRUSSES, BRIDGING AND RELATED ACCESSORIES ARE AS INDICATED ON THE CONTRACT DRAWINGS AND SPECIFIED HEREIN.
2. WORK SHALL MEET THE REQUIREMENTS OF THE FOLLOWING STANDARDS.
   A. AMERICAN IRON AND STEEL INSTITUTE (A.I.S.I.) DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS, 2007.
   B. AMERICAN WELDING SOCIETY (A.W.S.) D.1.3, 2008 STRUCTURAL WELDING CODE-SHEET STEEL.
   C. AMERICAN SOCIETY FOR TESTING AND MATERIALS (A.S.T.M.)
   D. AMERICAN INSTITUTE OF STEEL CONSTRUCTION (A.I.S.C) MANUAL OF STEEL CONSTRUCTION, 13TH EDITION.
   E. ALL PERTINENT FEDERAL, STATE AND LOCAL CODES.
3. THE MOST STRINGENT REQUIREMENTS SHALL GOVERN IN CONFLICTS BETWEEN SPECIFIED CODES AND STANDARDS.
4. SUBMIT STRUCTURAL CALCULATIONS FOR DESIGN OF TRUSSES, COMPRESSION AND TENSION CHORDS, SHEAR WALL AND CONNECTIONS, STAMPED AND SEALED BY A LICENSED STRUCTURAL ENGINEER IN THE STATE OF ILLINOIS PREPARED BY THE MANUFACTURER FOR APPROVAL BY THE PROJECT ARCHITECT AND PROJECT ENGINEER. CALCULATION SHALL INCLUDE:
   A. DESCRIPTION OF DESIGN CRITERIA.
   B. SELECTION OF BRIDGING COMPONENTS AND ACCESSORIES.
   C. VERIFICATION OF ATTACHMENTS TO STRUCTURE AND/OR ADJACENT FRAMING COMPONENTS.
5. SUBMIT DRAWINGS STAMPED AND SEALED BY A LICENSED STRUCTURAL ENGINEER IN THE STATE OF ILLINOIS PREPARED BY THE MANUFACTURER FOR APPROVAL BY THE PROJECT ARCHITECT AND PROJECT ENGINEER. THESE DRAWINGS SHOULD INCLUDE:
   A. CROSS-SECTIONS, PLANS AND/OR ELEVATIONS DEPICTING COMPONENT LOCATIONS.
   B. CONNECTION DETAILS SHOWING SCREW TYPES AND LOCATIONS, WELD LENGTHS AND LOCATIONS OR OTHER RELATED FASTENER REQUIREMENTS.
   C. WHERE THE CONTRACTOR INTENDS ON ERECTING PREFABRICATED/PREFINISHED PANELS, DRAWINGS DEPICTING PANEL CONFIGURATIONS, DIMENSIONS AND LOCATIONS WOULD BE DEVELOPED BY THE CONTRACTOR.
6. UPON DELIVERY, MATERIAL SHALL BE PROTECTED FROM RAIN AND SNOW BY IMPERVIOUS COVERING OR SHELTER.
7. ANY SUBSTITUTIONS MUST BE APPROVED IN WRITING TEN (10) DAYS PRIOR TO BID DATE, BY THE ARCHITECT AND/ OR ENGINEER OF RECORD.
8. ALL GALVANIZED STUDS, JOISTS, TRACK, BRIDGING AND ACCESSORIES SHALL BE FORMED FROM STEEL HAVING A GALVANIZED COATING MEETING THE REQUIREMENTS OF A.S.T.M. A653.
9. FRAMING COMPONENTS MAY BE PREASSEMBLED INTO PANELS PRIOR TO ERECTING. PREFABRICATED PANELS SHALL BE SQUARE, WITH COMPONENTS ATTACHED IN A MANNER AS TO PREVENT RACKING.OMPONE
10. ALL FRAMING COMPONENTS SHALL BE CUT SQUARELY FOR ATTACHMENT TO PERPENDICULAR MEMBERS, OR AS REQUIRED FOR AN ANGULAR FIT AGAINST ABUTTING MEMBERS. MEMBERS SHALL BE HELD POSITIVELY IN PLACE UNTIL PROPERLY FASTENED.
11. SPLICES IN AXIALLY LOADED STUDS SHALL NOT BE PERMITTED.
12. FASTENING OF COMPONENTS SHALL BE WITH SELF TAPPING SCREWS OR WELDING OF SUFFICIENT SIZE TO INSURE THE STRENGTH OF THE CONNECTION.
13. WELDS SHALL BE PERFORMED BY OPERATORS QUALIFIED IN ACCORDANCE WITH SECTION 6.0 OF THE AMERICAN WELDING SOCIETYS STRUCTURAL WELDING CODE-SHEET METAL (AWS D1.3-81). ALL WELDS SHALL BE TOUCHED UP WITH ZINC RICH PAINT.
14. IMMEDIATELY NOTIFY ARCHITECT AND ENGINEER OF ALL DISCREPANCIES.
15. DO NOT PROCEED WITH INSTALLATION IN AREAS OF DISCREPANCIES UNTIL SUCH DISCREPANCY HAS BEEN FULLY RESOLVED.
16. ERECT ROOF TRUSSES, LEVEL, PLUMB, AND ALIGNED IN STRICT ACCORDANCE WITH THE APPROVED SHOP DRAWINGS.
17. HANDLING AND LIFTING OF PREFABRICATED TRUSSES SHALL BE DONE IN A MANNER AS TO NOT CAUSE DISTORTION IN ANY MEMBER.
18. TRUSSES SHALL BE SECURELY ANCHORED TO THE SUPPORTING STRUCTURE AS SHOWN ON THE ERECTION DRAWINGS.
19. TEMPORARY BRACING SHALL BE PROVIDED UNTIL ERECTION IS COMPLETED.
20. JOIST SHALL BE LOCATED DIRECTLY OVER BEARING STUDS OR A LOAD DISTRIBUTION MEMBER SHALL BE PROVIDED AT THE TOP TRACK.
21. PROVIDE WEB STIFFENERS AS REQUIRED BY THE LIGHT GAGE MANUFACTURER.
22. END BLOCKING SHALL BE PROVIDED WHERE JOIST ENDS ARE NOT OTHERWISE RESTRAINED FROM ROTATION.

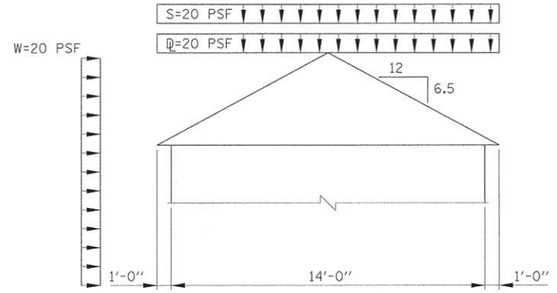
FORM LINER TEXTURED SURFACE NOTE:

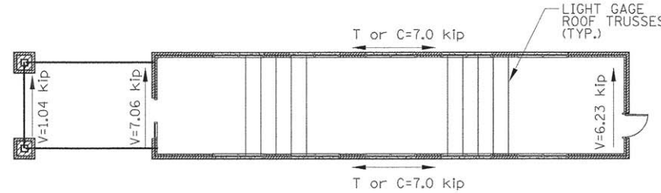
WALLS SHALL HAVE A FORM LINER TEXTURED SURFACE WHERE SHOWN IN THE PLANS. THE FORM LINER SHALL HAVE A MAXIMUM RELIEF OF 1.5 INCHES. THE PATTERN OF THE FORM LINER SHALL BE APPROVED BY THE VILLAGE OF MAYWOOD.

DESIGN LOADS

LIVE LOAD:
SNOW = 20 PSF
WIND = 20 PSF

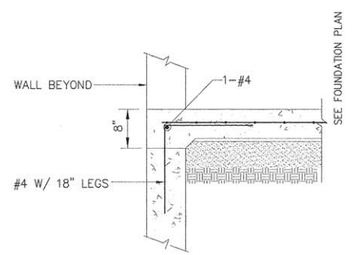
DEAD LOAD:
ROOF + MEMBRANE = 15 PSF
TRUSS = 5 PSF



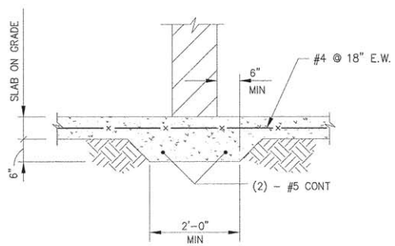


WIND LOAD ON END TRUSSES

THE LIGHT GAGE TRUSS MANUFACTURER SHALL DESIGN THE END TRUSSES TO TRANSFER THE WIND LOADS SHOWN ON FRAMING PLANS TO THE SUPPORTING STRUCTURES, THE CONNECTION OF END TRUSSESS TO THE SUPPORTING MEMBERS, AND CHORD MEMBERS TO HAVE ENOUGH CAPACITY FOR THE SHOWN COMPRESSION OR TENSION LOADS. SUBMIT DRAWINGS STAMPED AND SEALED BY A LICENSED STRUCTURAL ENGINEER IN THE STATE OF ILLINOIS PREPARED BY THE MANUFACTURER FOR APPROVAL BY THE PROJECT ARCHITECT AND PROJECT ENGINEER.



SECTION



TYPICAL THICKENED SLAB DETAIL

UNDER ALL INTERIOR NON-BEARING MASONRY WALLS

VILLAGE OF MAYWOOD
40 MADISON STREET
MAYWOOD, IL 60153

USER NAME = mmicholowicz	DESIGNED - MBT	REVISED -	
	DRAWN - MBT	REVISED -	
PLOT SCALE = 1'	CHECKED - MEK	REVISED -	
PLOT DATE = 1/22/2016	DATE - 01/25/16	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAYWOOD METRA STATION
STRUCTURAL NOTES AND DETAILS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-00136-00-RR	COOK	65	23
		CONTRACT NO. 61C74		
	ILLINOIS FED. AID PROJECT			

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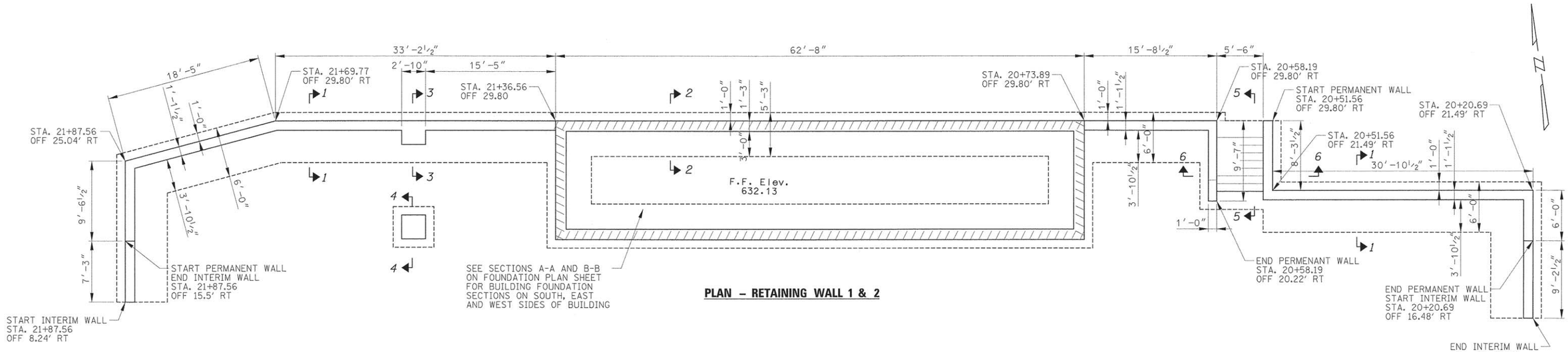
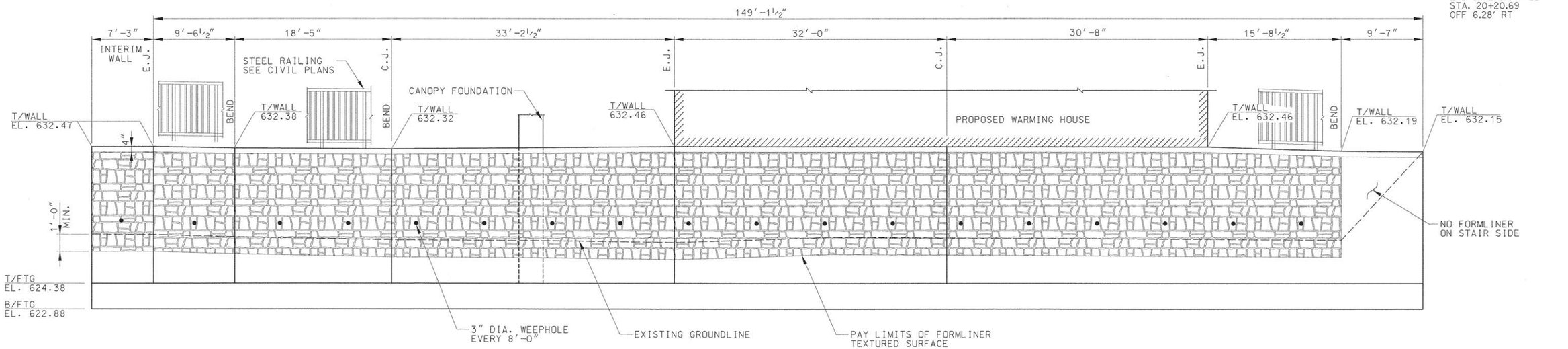
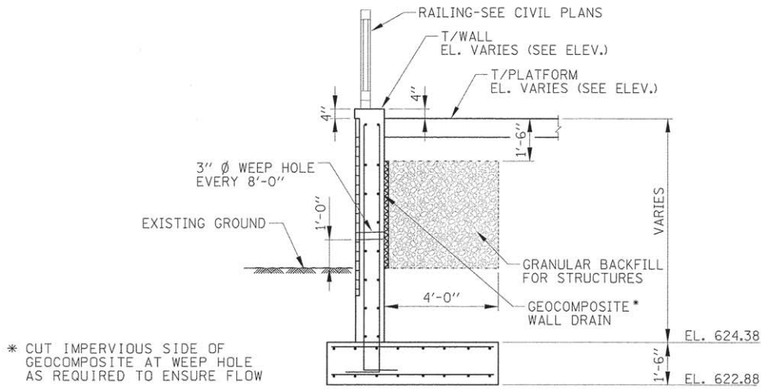


PLAN – RETAINING WALL 1 & 2



DEVELOPED ELEVATION – RETAINING WALL 1

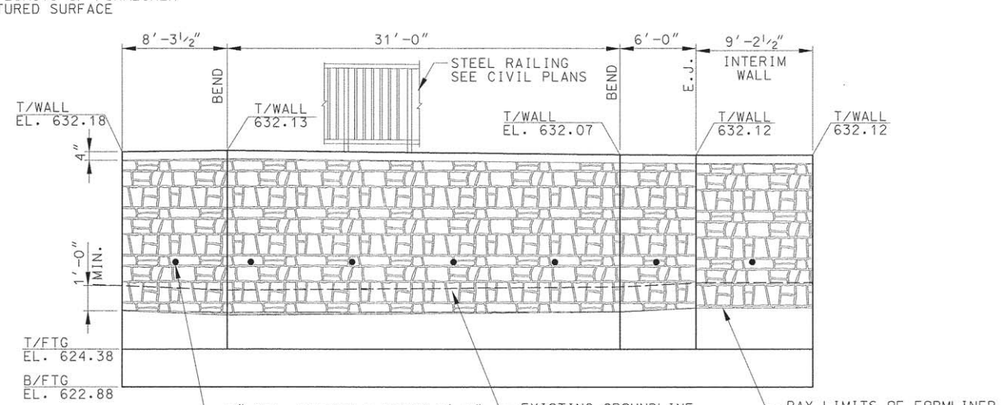
(ALONG NORTH FACE OF WALL)



TYPICAL WALL CROSS SECTION

C.J. = CONSTRUCTION JOINT
E.J. = EXPANSION JOINT

SEE C.J. AND E.J. DETAILS ON SIDEWALK AND RETAINING WALL PLAN, ELEVATION, SECTION AND DETAILS SHEET



DEVELOPED ELEVATION – RETAINING WALL 2

(ALONG NORTH FACE OF WALL)

VILLAGE OF MAYWOOD 40 MADISON STREET MAYWOOD, IL 60153	USER NAME = mmicholowicz	DESIGNED - MBT	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAYWOOD METRA STATION RETAINING WALL PLAN, ELEVATION AND SECTION
		DRAWN - MBT	REVISED -		
	PLOT SCALE = 6'	CHECKED - MEK	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.
	PLOT DATE = 1/22/2016	DATE - 01/25/16	REVISED -		

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-00136-00-RR	COOK	65	24
		CONTRACT NO. 61C74		
	ILLINOIS FED. AID PROJECT			

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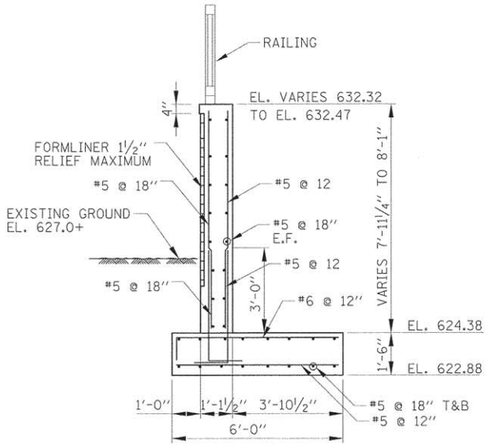
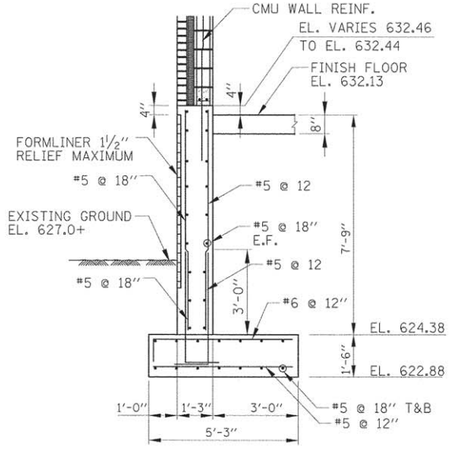
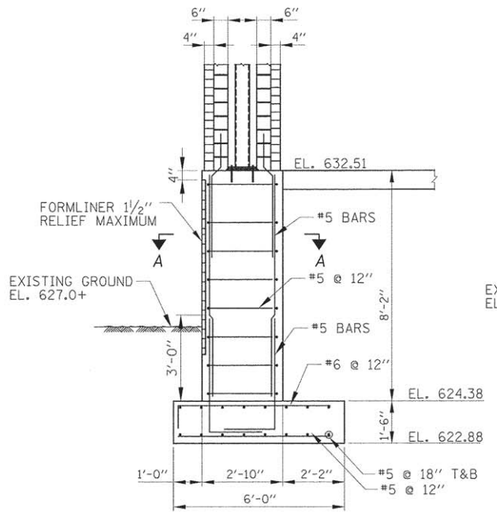


SECTION 1–1

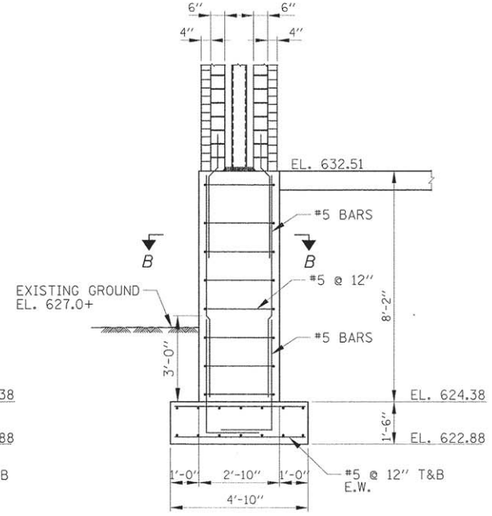


SECTION 2–2

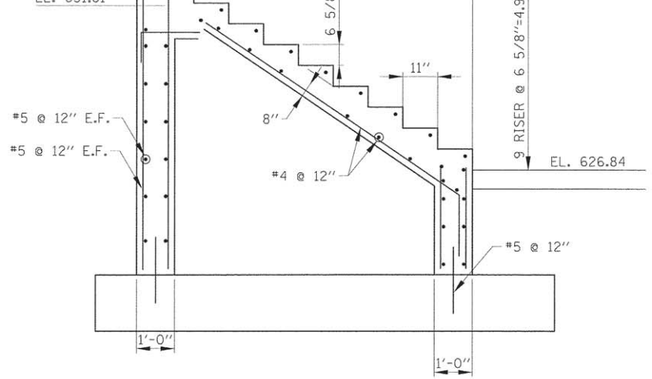


SECTION 3–3

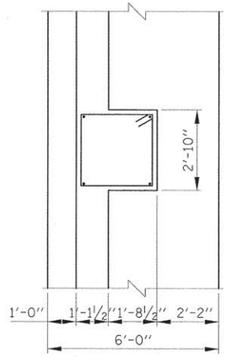
(REBAR FROM WALL BEYOND
OMITTED FOR CLARITY)



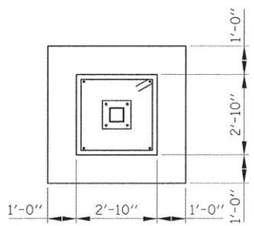
SECTION 4–4



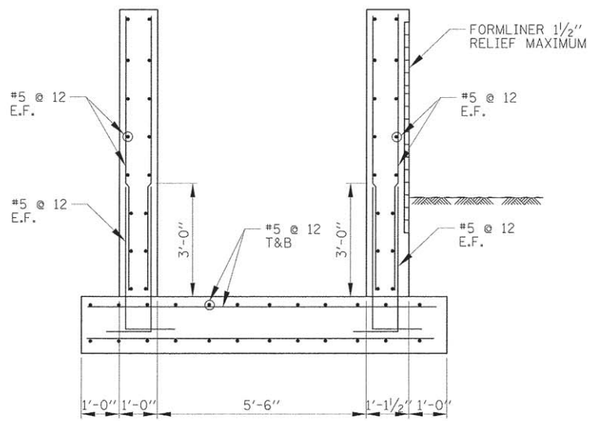
TYPICAL STAIR DETAIL
SECTION 5–5



SECTION A–A



SECTION B–B



SECTION THRU STAIR
SECTION 6–6

VILLAGE OF MAYWOOD 40 MADISON STREET MAYWOOD, IL 60153	USER NAME = mmichalowicz	DESIGNED - MBT	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAYWOOD METRA STATION STRUCTURAL SECTIONS
		DRAWN - MBT	REVISED -		
	PLOT SCALE = 1'	CHECKED - MEK	REVISED -		
	PLOT DATE = 2/19/2016	DATE - 01/25/16	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-00136-00-RR	COOK	65	25
		CONTRACT NO. 61C74		
	ILLINOIS FED. AID PROJECT			

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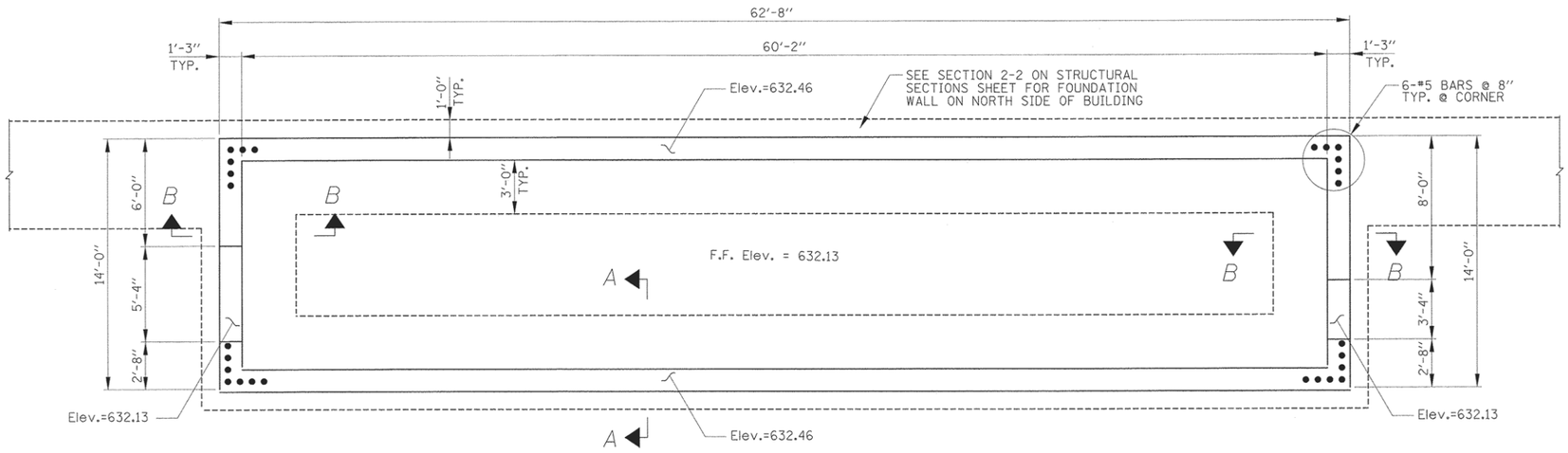
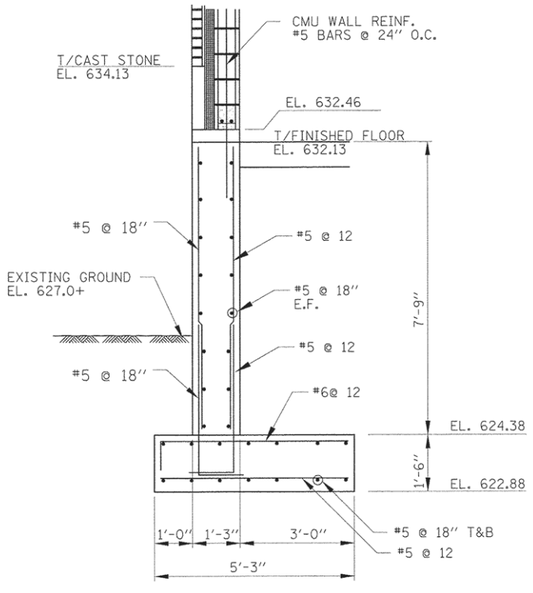
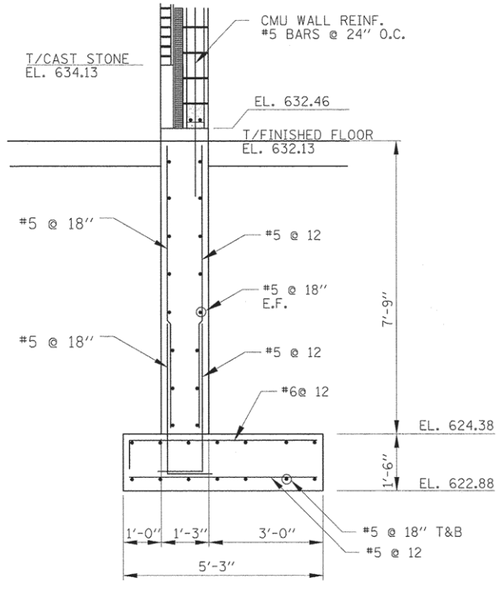


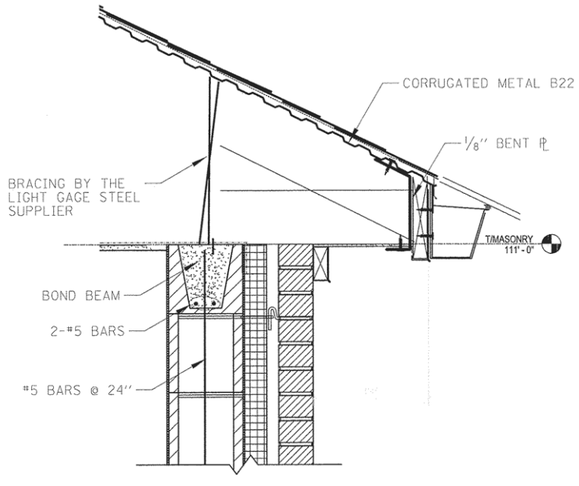
FOUNDATION PLAN



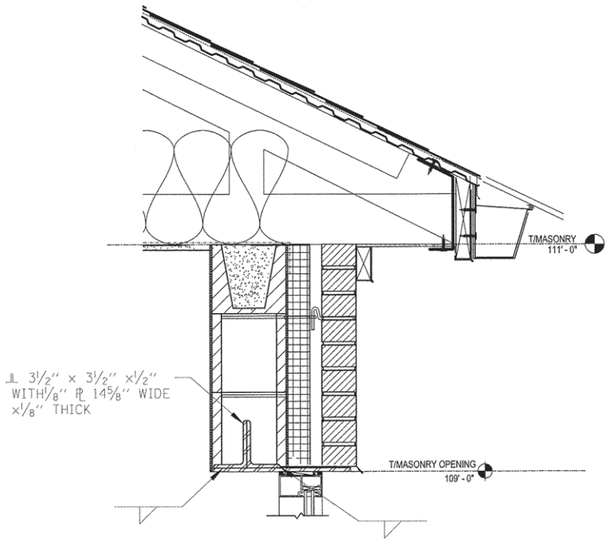
SECTION A–A



SECTION B–B



DETAIL



LINTEL L

VILLAGE OF MAYWOOD 40 MADISON STREET MAYWOOD, IL 60153	USER NAME = mmichalowicz	DESIGNED - MBT	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAYWOOD METRA STATION FOUNDATION PLAN
		DRAWN - MBT	REVISED -		
	PLOT SCALE = 4'	CHECKED - MEK	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.
	PLOT DATE = 1/22/2016	DATE - 01/25/16	REVISED -		

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-00136-00-RR	COOK	65	26
		CONTRACT NO. 61C74		
		ILLINOIS FED. AID PROJECT		

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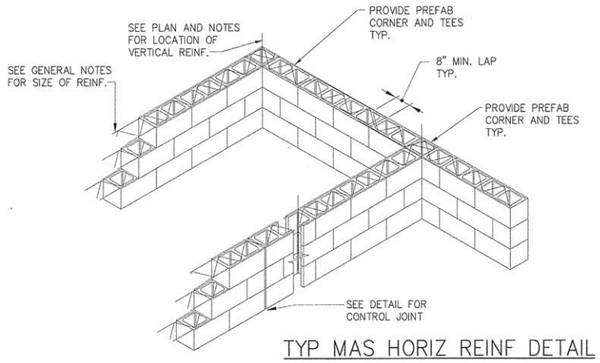
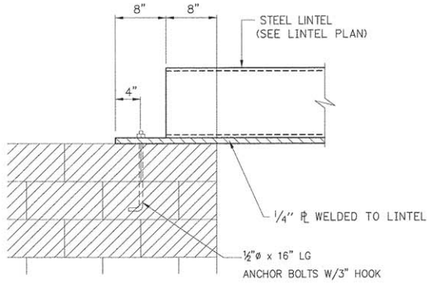
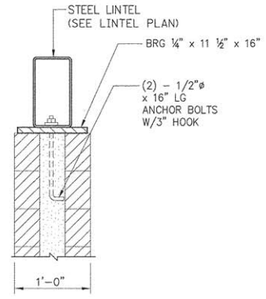


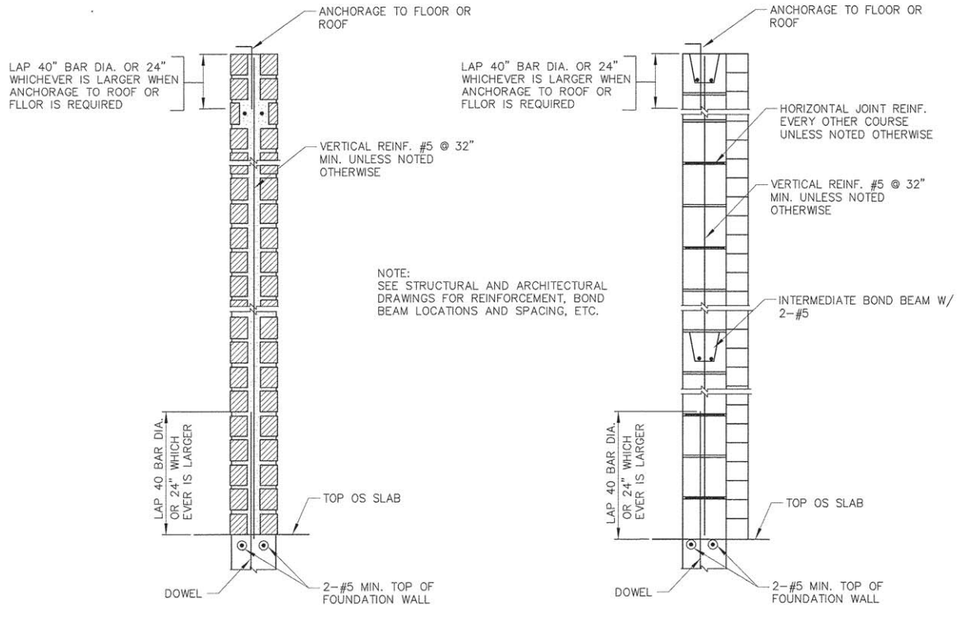
TYP MAS HORIZ REINF DETAIL



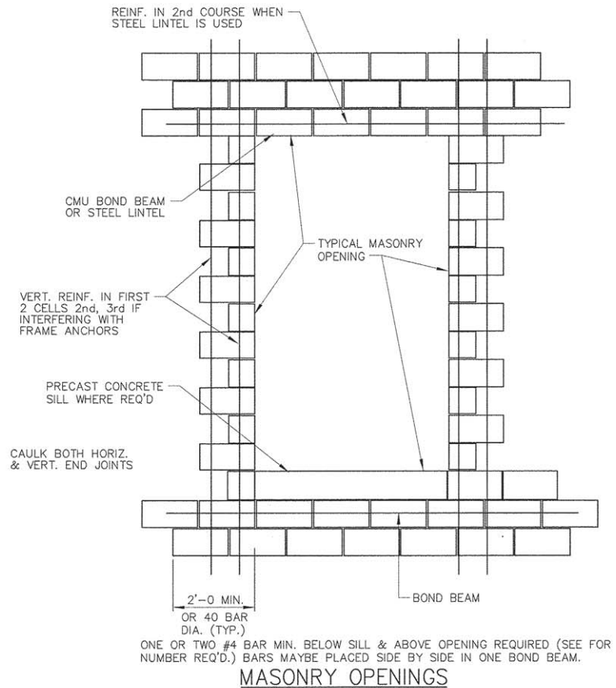
TYP. LINTEL BEARING DETAILS (ON MASONRY)



TYP. LINTEL BEARING DETAILS (ON MASONRY)

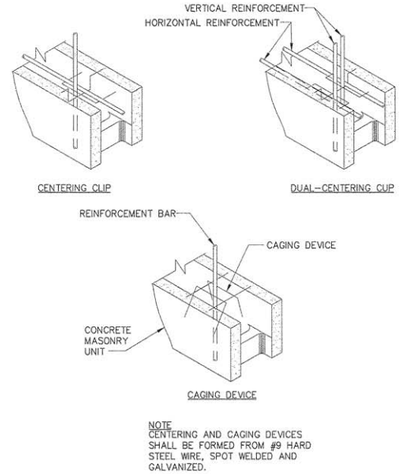


TYPICAL MASONRY WALL



ONE OR TWO #4 BAR MIN. BELOW SILL & ABOVE OPENING REQUIRED (SEE FOR NUMBER REQ'D.) BARS MAYBE PLACED SIDE BY SIDE IN ONE BOND BEAM.

MASONRY OPENINGS



NOTE
CENTERING AND CAGING DEVICES SHALL BE FORMED FROM #9 HARD STEEL WIRE, SPOT WELDED AND GALVANIZED.

CENTERING AND CAGING DEVICES

VILLAGE OF MAYWOOD 40 MADISON STREET MAYWOOD, IL 60153	USER NAME = mmichalowicz	DESIGNED - MBT	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAYWOOD METRA STATION STRUCTURAL DETAILS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - MBT	REVISED -				13-00136-00-RR	COOK	65	27
	PLOT SCALE = 1'	CHECKED - MEK	REVISED -					CONTRACT NO 61C74		
	PLOT DATE = 1/22/2016	DATE - 01/25/16	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT		

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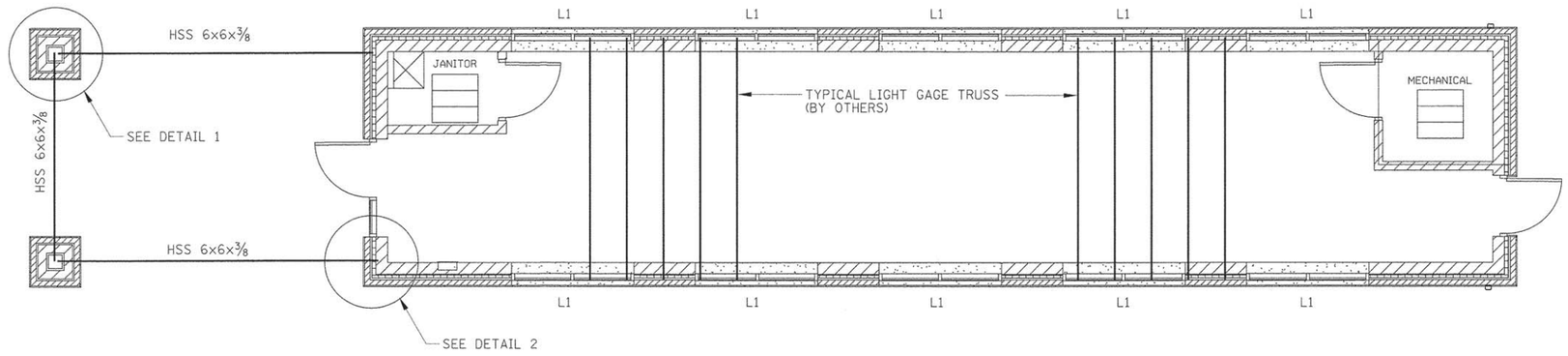
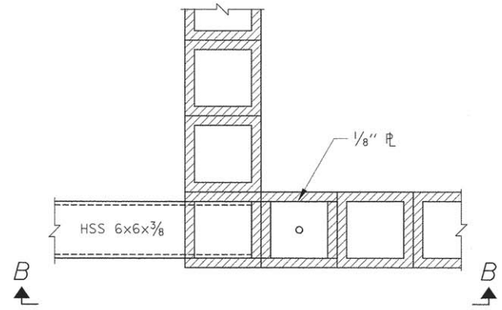
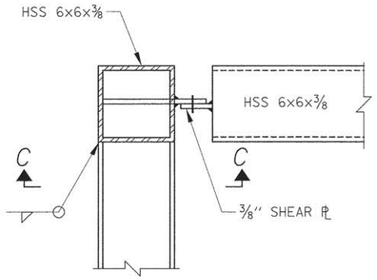


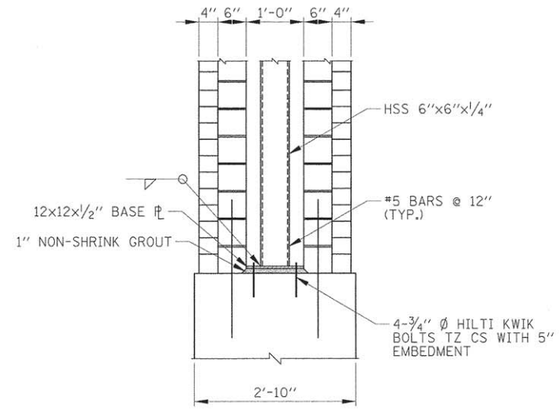
FRAMING PLAN



DETAIL 2



DETAIL 1



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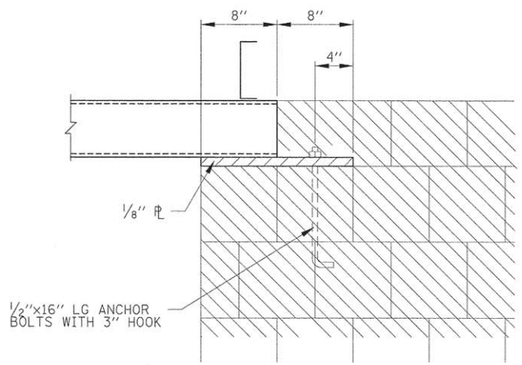

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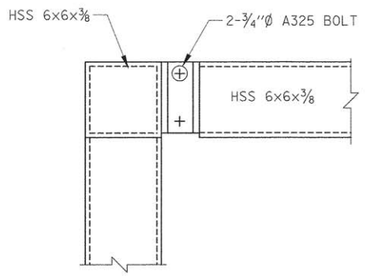

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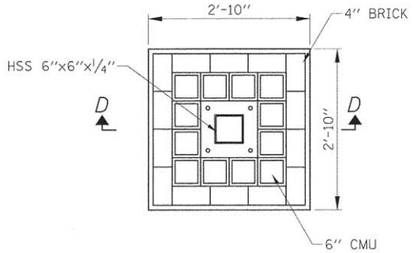
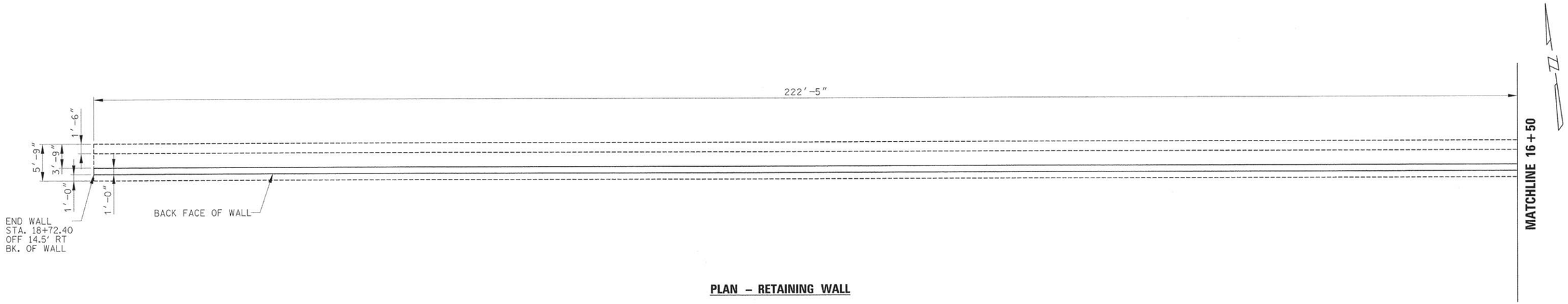


MASONRY COLUMN DETAIL

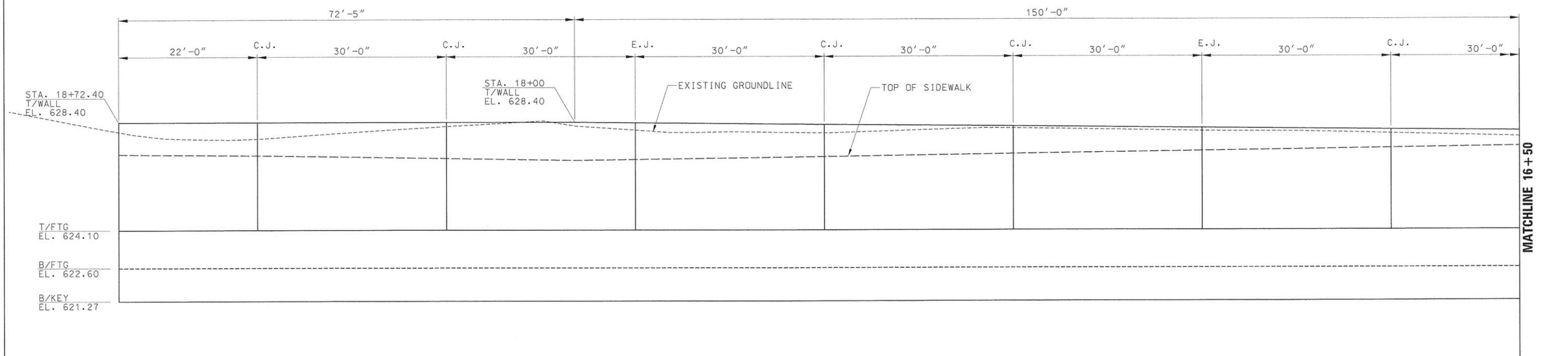
VILLAGE OF MAYWOOD 40 MADISON STREET MAYWOOD, IL 60153	USER NAME = mmichalowicz	DESIGNED - MBT	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAYWOOD METRA STATION STRUCTURAL SECTIONS
		DRAWN - MBT	REVISED -		
	PLOT SCALE = 1'	CHECKED - MEK	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.
	PLOT DATE = 1/22/2016	DATE - 01/25/16	REVISED -		

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-00136-00-RR	COOK	65	28
		CONTRACT NO. 61C74		
	ILLINOIS FED. AID PROJECT			

FILE NAME = N:\MAYWOOD\13812B\Maywood-DPW\12345104.DGN



PLAN – RETAINING WALL



ELEVATION – RETAINING WALL

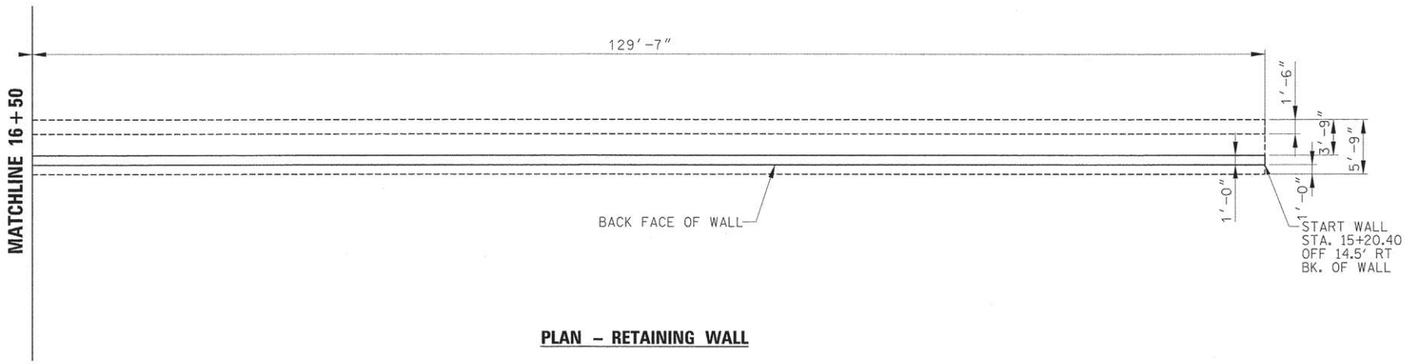
(FENCE OMITTED FOR CLARITY)

C.J. = CONSTRUCTION JOINT

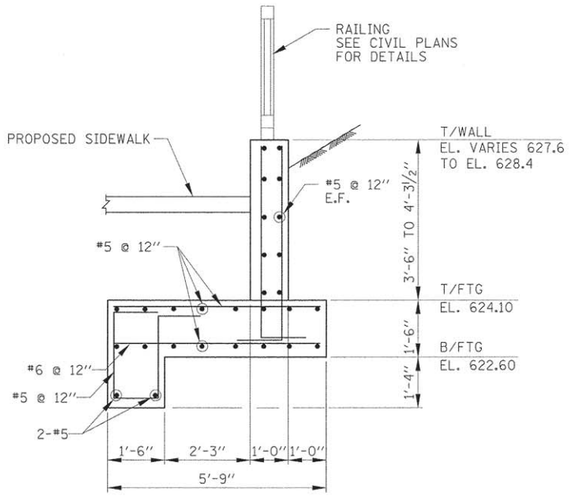
E.J. = EXPANSION JOINT

VILLAGE OF MAYWOOD 40 MADISON STREET MAYWOOD, IL 60153	USER NAME = mmichalowicz	DESIGNED – MBT	REVISED –	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAYWOOD METRA STATION SIDEWALK RETAINING WALL PLAN AND ELEVATION	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN – MBT	REVISED –				13-00136-00-RR	COOK	65	29
	PLOT SCALE = 8′	CHECKED – MEK	REVISED –					CONTRACT NO. 61C74		
	PLOT DATE = 1/22/2016	DATE – 01/25/16	REVISED –		SCALE: SHEET OF SHEETS STA. TO STA.		ILLINOIS	FED. AID PROJECT		

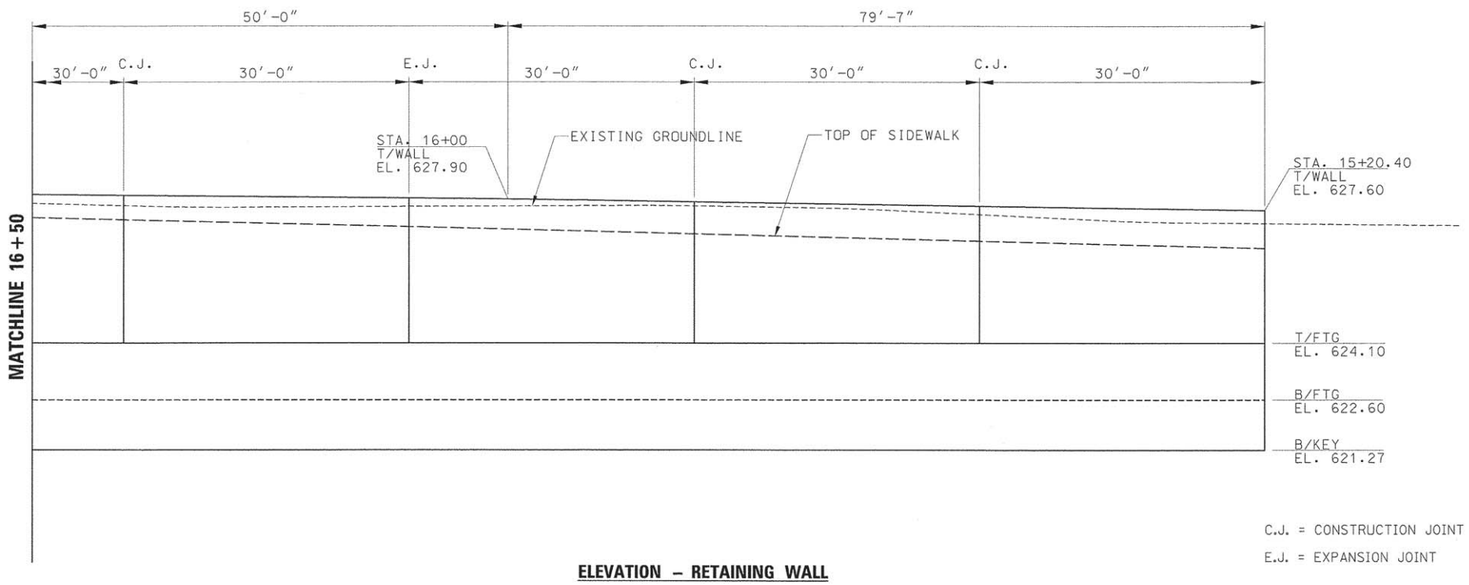
FILE NAME = N:\MAYWOOD\138128\Maywood-UPW\1234S106.DGN



PLAN – RETAINING WALL



TYPICAL WALL SECTION

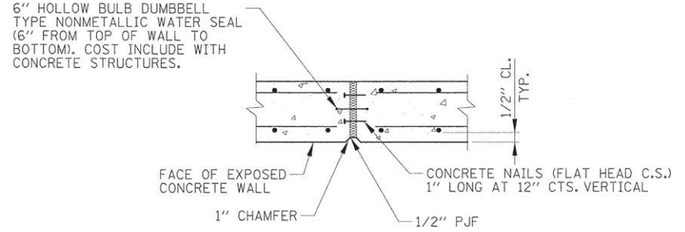


C.J. = CONSTRUCTION JOINT

E.J. = EXPANSION JOINT

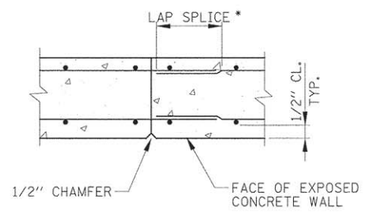
ELEVATION – RETAINING WALL

(FENCE OMITTED FOR CLARITY)



EXPANSION JOINT DETAILS

(FORMLINER FOR MAIN STATION WALLS OMITTED FOR CLARITY)



* SEE STRUCTURAL NOTES AND DETAILS SHEET FOR LAP SPLICE LENGTH

CONSTRUCTION JOINT DETAILS

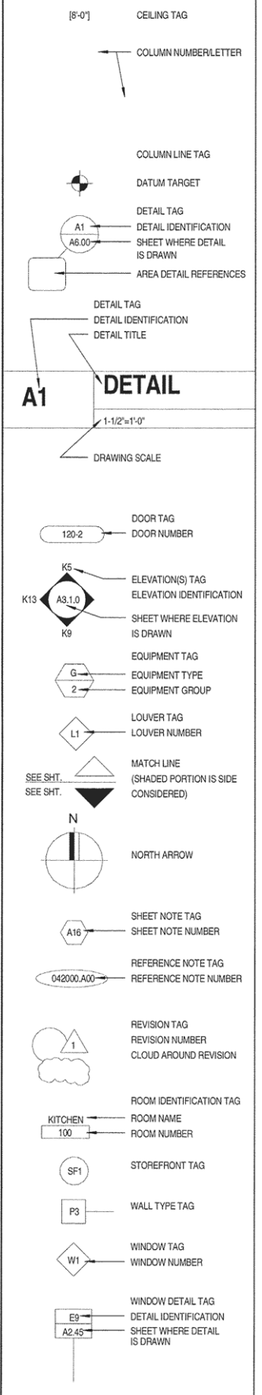
(FORMLINER FOR MAIN STATION WALLS OMITTED FOR CLARITY)

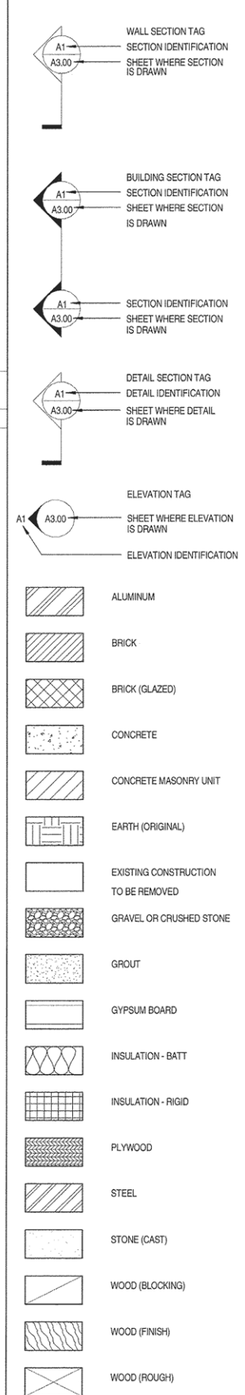
VILLAGE OF MAYWOOD 40 MADISON STREET MAYWOOD, IL 60153	USER NAME = mmichalowicz	DESIGNED - MBT	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAYWOOD METRA STATION SIDEWALK RETAINING WALL PLAN, ELEVATION, SECTION AND DETAILS
		DRAWN - MBT	REVISED -		
	PLOT SCALE = 8′	CHECKED - MEK	REVISED -		
	PLOT DATE = 1/22/2016	DATE - 01/25/16	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-00136-00-RR	COOK	65	30
		CONTRACT NO. 61C74		
	ILLINOIS FED. AID PROJECT			

FILE NAME = N:\MAYWOOD\130128\Maywood-UPW\12345107.DGN

GRAPHIC AND MATERIAL SYMBOLS





&	AND
∠	ANGLE
@	AT
℄	CENTER LINE
∅	DIAMETER OR ROUND
#	POUND OR NUMBER
ACOUS	ACOUSTICAL
ADJ	ADJACENT
AFF	ABOVE FINISH FLOOR
AGR	AGGREGATE
AL	ALUMINUM
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
ASPH	ASPHALT
B/	BOTTOM OF
BD	BOARD
BITUM	BITUMINOUS
BLDG	BUILDING
BLKG	BLOCKING
BLK	BLOCK
BM	BEAM
BR	BRICK
CAB	CABINET
CB	CHALKBOARD
CBN	CATCH BASIN
CEM	CEMENT
CER	CERAMIC
CG	CORNER GUARD
CI	CAST IRON
CJ	CONTROL JOINT
CLG	CEILING
℄	CENTER LINE
CL	CLOSET
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONSTR	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
CORR	CORRIDOR
CPT	CARPETING
CT	CERAMIC TILE
CTR	CENTER
CTRL	CONTROL
DBL	DOUBLE
DET	DETAIL
DIA	DIAMETER
DIM	DIMENSION
DN	DOWN
DO	DOOR OPENING
DR	DOOR
DS	DOWNSPOUT
DWG	DRAWING
E	EAST
EA	EACH
EIFS	EXTERIOR INSULATION & FINISH SYSTEMS
EJ	EXPANSION JOINT
ELEC	ELECTRICAL
ELEV	ELEVATION
ENCL	ENCLOSURE
E.P.	ELECTRICAL PANEL
EP	EPOXY PAINT
EQ	EQUAL
EQUIP	EQUIPMENT
EWC	ELECTRIC WATER COOLER
EXIST	EXISTING
EXP	EXPOSED
EXT	EXTERIOR
FA	FIRE ALARM
FD	FLOOR DRAIN
FDN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FINISH FLOOR
F.F.	FACTORY FINISH
FHC	FIRE HOSE CABINET
FHVC	FIRE HOSE VALVE CABINET
FIN	FINISH
FLR	FLOOR
FOC	FACE OF CONCRETE
FLUOR	FLUORESCENT
FOF	FACE OF FINISH
FOS	FACE OF STUD
FS	FLOOR SINK
FT	FOOT OR FEET
FSR	FLAME SPREAD RATING
FTG	FOOTING
GA	GAUGE
GALV	GALVANIZED
GB	GYPSUM BOARD
GL	GLASS
GND	GROUND
GR	GRADE
GYP	GYPSUM
HB	HOSE BIBB
HC	HANDICAPPED
HDWR	HARDWARE
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HP	HIGH POINT
HR	HOUR
HT	HEIGHT
ID	INSIDE DIAMETER
IN	INCH
INSUL	INSULATION
INT	INTERIOR
INV	INVERT
JAN	JANITOR
JC	JANITOR CLOSET
JT	JOINT
KD	KNOCK DOWN
KIT	KITCHEN
KO	KNOCKOUT
KW	KILOWATT
KWH	KILOWATT HOUR
LBR	LUMBER
LG	LONG
LL	LIVE LOAD
LP	LOW POINT
LT	LIGHT
MATL	MATERIAL
MAX	MAXIMUM
MB	MARKER BOARD
MECH	MECHANICAL
MTL	METAL
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MTD	MOUNTED
N	NORTH
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OH	OPPOSITE HAND
OPNG	OPENING
OPP	OPPOSITE
P.B.	PARTICLE BOARD
P.C.	PRECAST
P.L.	PROPERTY LINE
PL.	PLATE
PLWD	PLYWOOD
PLUM	PLUMBING
PR	PAIR
PT	PAINT
QT	QUARRY TILE
QTY	QUANTITY
R	RISER
RAD	RADIUS
RB	RUBBER BASE
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REC	RECESSED
REINF	REINFORCED
REQ'D	REQUIRED
REV	REVERSE
RM	ROOM
RO	ROUGH OPENING
S	SOUTH
SCHED	SCHEDULE
SECT	SECTION
SHT	SHEET
SIM	SIMILAR
SPEC	SPECIFICATION
SQ	SQUARE
SS	STAINLESS STEEL
ST	STAIN
STD	STANDARD
STL	STEEL
SUSP	SUSPENDED
SYM	SYMMETRICAL
T/	TOP OF
T&G	TONGUE AND GROOVE
TB	TACK BOARD
THK	THICK
THSH	THRESHOLD
T.S.	TUBE STEEL
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
V.I.F.	VERIFY IN FIELD
VOL	VOLUME
VWC	VINYL WALL COVERING
W	WEST
WC	WATER CLOSET
WD	WOOD
WM	WIRE MESH
WP	WATERPROOF
WPT	WORKING POINT
WR	WATER RESISTANT
WT	WEIGHT
W/	WITH
W/O	WITHOUT
YD	YARD
YR	YEAR

GENERAL ARCHITECTURAL NOTES

A. FIRE RESISTANCE COMPLIANCE

A.01 SEE CODE COMPLIANCE PLANS IN A-SERIES FOR DETAILED CODE COMPLIANCE REQUIREMENTS.

A.02 UNLESS OTHERWISE NOTED, PROVIDE THE FOLLOWING MINIMUM FIRE SEPARATIONS:

A. WALLS
1. EXTERIOR NONBEARING - NON COMBUSTIBLE
2. INTERIOR PARTITIONS STORAGE - 1 HR.
3. ELEVATOR MACHINE ROOMS - 1 HR B LABEL DOORS

A.03 INTERIOR FINISH MATERIALS SHALL BE OF FLAME SPREAD/SMOKE DEVELOPED LIMITS AS SHOWN BELOW BASED ON ASTM E-84 TEST METHOD:
A. STAIRS - 25/450 MAXIMUM
B. PUBLIC CIRCULATION SPACES - 25/450 MAXIMUM
C. OCCUPIED SPACES - 200/450 MAXIMUM

A.04 UNLESS OTHERWISE NOTED, AUTOMATIC SPRINKLER PROTECTION SHALL BE INSTALLED THROUGHOUT ALL BUILDING AREAS.

A.05 ALL OPENINGS IN THE FLOOR SLABS, INCLUDING SPACES BETWEEN CONDUITS, PIPING, ETC (EXCEPT WHEN COMPLETELY ENCLOSED WITHIN FIRE RATED CONSTRUCTION, SHALL BE SEALED OFF WITH APPROVED FIRE RATED PENETRATION SEALANT SYSTEMS TO MAINTAIN FIRE RATING CONTINUITY OF THE FLOOR CONSTRUCTION.

A.06 ALL FIRE-RESISTIVE (LABELED) DOORS SHALL HAVE THE APPROPRIATE UL OR OTHER RATING AGENCY LABEL ACCEPTABLE TO GOVERNMENT AUTHORITIES AFFIXED TO BOTH DOOR AND FRAME.

A.07 FIRE RATING INDICATION ON A WALL SHALL MEAN THE ENTIRE LENGTH OF WALL IS TO BE FIRE RATED.

A.08 ALL PIPING DUCTS, ETC THAT PENETRATE FLOOR SLABS SHALL BE INSTALLED IN A MANNER THAT WILL PRESERVE THE FIRE-RESISTIVE AND STRUCTURAL INTEGRITY. PENETRATIONS INTO FIRE-RATED WALLS OF MORE THAN 1 HR. RATING SHALL BE PROVIDED WITH APPROVED FIRE DAMPERS WHETHER OR NOT SHOWN IN THE MECHANICAL DRAWINGS.

A.09 ALL RATINGS ARE TO COMPLY WITH UNDERWRITERS LABORATORIES (UL) TEST RATINGS. IN THE ABSENCE OF TESTED ASSEMBLY, PROVIDE CERTIFICATE OF EQUIVALENCY FROM UL. MEET ALL THE REQUIREMENTS OF FACTORY MUTUAL ENGINEERING FOR BOTH CONSTRUCTION AND FIRE PROTECTION.

A.10 GENERAL CONTRACTOR TO COORDINATE ALL MECHANICAL AND ELECTRICAL FLOOR, ROOF AND WALL SLEEVES AND ALL MECHANICAL SHAFTS AND OPENINGS WITH MECHANICAL, PLUMBING, FIRE PROTECTION, ELECTRICAL, STRUCTURAL AND ARCHITECTURAL DRAWINGS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES. GENERAL CONTRACTOR SHALL PROVIDE SLEEVES AND FLOOR AND ROOF OPENINGS AS REQUIRED TO ALLOW INSTALLATION OF ALL DUCTS AND PIPING AS SHOWN ON THE MECHANICAL AND ELECTRICAL DRAWINGS.

A.11 REFER TO CERTIFIED MECHANICAL AND ELECTRICAL CONTRACTOR'S DRAWINGS AND MANUFACTURER'S TEMPLATE DRAWINGS FOR ALL MECHANICAL AND ELECTRICAL EQUIPMENT SUPPORTS. BOLT SETTING TEMPLATES, ISOLATIONS, SPRING ISOLATION, ETC., REQUIRED, WHETHER OR NOT SHOWN ON DRAWINGS.

B. DIMENSIONING

B.01 PARTITIONS ARE DIMENSIONED TO THE FACE OF THE WALL UNLESS NOTED OTHERWISE.

B.02 VERIFY DIMENSIONS IN THE FIELD BEFORE PROCEEDING WITH THE WORK. NOTIFY ARCHITECT OF DEFICIENCIES

B.03 DOOR OPENINGS ARE GENERALLY DIMENSIONED TO CENTERLINE OF OPENING. DOOR OPENINGS THAT ARE NOT DIMENSIONALLY LOCATED ARE TO BE CENTERED BETWEEN WALLS OR POSITIONED WITH THE HINGED JAMB 2" AWAY FROM AN ADJACENT WALL OR COLUMN AS SHOWN ON THE PLANS AND/OR DETERMINED BY THE DETAILS.

B.04 WHEN UNDIMENSIONED PARTITIONS APPEAR IN CONJUNCTION WITH DOOR OPENINGS, THE DOOR WIDTH AND DOOR FRAME DETAILS DETERMINE THE LOCATION OF ADJACENT WALLS AND FRAMES.

B.05 UNLESS OTHERWISE NOTED, REFER TO 1/4" (1:50) SCALE PLANS FOR DIMENSIONS OF MAJOR STAIRS, TOILETS AND ELEVATOR SHAFTS.

B.06 ALL DIMENSIONS SHALL BE VERIFIED AND COORDINATED WITH ALL OF THE WORK OF ALL TRADES.

C. INSULATION

C.01 WHETHER SPECIFICALLY SHOWN, OR NOT, PROVIDE INSULATION AND VAPOR BARRIER BETWEEN ALL EXTERIOR AND INTERIOR HEATED SPACES TO MAINTAIN MINIMUM DESIGN U- VALUES OF 0.08 FOR WALLS AND 0.05 FOR ROOFS, UNLESS NOTED OTHERWISE.

C.02 ALL JOINTS AND PENETRATIONS IN PLASTIC INSULATION BARRIER SHALL BE FULLY BUTTERED/SEALED WITH ADHESIVE/SEALANT TO PROVIDE A CONTINUOUS AIR/VAPOR TIGHT INSTALLATION.

C.03 ALL JOINTS IN FOIL FACE MINERAL FIBER INSULATION BARRIER SHALL BE FOIL-TAPED TO PROVIDE A CONTINUOUS VAPOR-TIGHT INSTALLATION.

D. WATERPROOFING AND DAMPPROOFING

D.01 UNLESS OTHERWISE NOTED, PROVIDE ELASTOMERIC WATERPROOF DECK COATING AT FAN ROOMS, EMERGENCY GENERATOR ROOMS, PUMP ROOMS AND ALL MECHANICAL ROOMS.

D.02 PROVIDE SPECIFIED SETTING BED AND WATERPROOFING MEMBRANE UNDER ENTIRE TILE FLOOR IN TOILET ROOMS, SHOWER ROOMS, KITCHENS AND OTHER WET AREAS WHEN THESE SPACES ARE OVER OCCUPIED SPACES OTHER THAN TOILET ROOMS.

E. MECHANICAL AND ELECTRICAL AREAS

E.01 ALL WALLS BETWEEN MECHANICAL OR ELECTRICAL SPACES AND OCCUPIED SPACES SHALL BE ACOUSTICALLY ISOLATED FROM THE OCCUPIED SPACES AND SHALL MAINTAIN A MINIMUM STC RATING OF 52. (U.N.O.)

E.02 UNLESS OTHERWISE NOTED, PROVIDE A 6" CONCRETE CURB AROUND ENTIRE PERIMETER OF MECHANICAL ROOMS.

E.03 UNLESS OTHERWISE NOTED, ALL HOUSEKEEPING CONCRETE PADS ARE TO BE 4" (INCHES) HIGH MINIMUM. PROVIDE ONE LAYER OF WWF 6X6/W4.0 X W4.0 WELDED WIRE FABRIC MINIMUM.

E.04 PROVIDE BASES AND HOUSEKEEPING PADS FOR ALL ELECTRICAL AND MECHANICAL REQUIRING BASES AND PADS. COORDINATE ALL EQUIPMENT BASE AND HOUSEKEEPING PADS WITH MECHANICAL, PLUMBING AND ELECTRICAL CONTRACTORS. INSTALL THE PADS BENEATH THE FULL PROJECTED AREA OF EQUIPMENT.

F. EXTERIOR WALL

F.01 THE EXTERIOR WALL AS SHOWN SHALL BE A COMPLETE SYSTEM INCLUDING ALL STIFFENERS, FASTENERS, SEALANTS, JOINTING, MISCELLANEOUS PIECES AND MATERIAL THICKNESS AS REQUIRED TO FORM A WATERTIGHT ENCLOSURE.

F.02 DETAILS NOT SHOWN ARE SIMILAR IN CHARACTER TO THOSE DETAILED.

F.03 ALL DETAILS ARE TO BE COORDINATED WITH THE STRUCTURAL FRAMING AND OTHER BUILDING COMPONENTS INCLUDING ROOFING, EXTERIOR-CLADDING ITEMS, GLAZING, INTERIOR FINISH AND OTHER RELATED BUILDING COMPONENTS.

F.04 THE EXTERIOR METAL BACK UP WALL, INCLUDING METAL STUD FRAMING, SIZE, CONNECTIONS, BRACING AND MISCELLANEOUS SUPPORTS SHALL BE DESIGNED BY THE COLD FORMED METAL MANUFACTURER ACCORDING TO STRUCTURAL LOADING PARAMETER SPECIFIED AND AS REQUIRED BY ALL CODES HAVING JURISDICTION.

F.05 ALL SEALANT JOINTS SHALL BE SIZED SUCH THAT THEY WILL BE WITHIN THE SIZE RANGE RECOMMENDED BY THE SEALANT MANUFACTURER.

F.06 VERIFY OR GUARANTEE ALL CLEAR OPENINGS FOR LOUVERS AND WINDOW INSTALLATION.

F.07 ALL MASONRY ATTACHMENTS, LINTELS, SHELF ANGLES, AND SUPPORTS SHALL BE HOT-DIPPED GALVANIZED STEEL. ALL SHIMS SHALL BE NON-CORROSIVE MATERIALS.

F.08 ALL SILLS, WINDOW HEADS, AND SHELF ANGLES SHALL HAVE FLASHING EXTENDED TO THE OUTSIDE OF THE WALL WHETHER OR NOT SHOWN ON THE DRAWINGS.

F.09 MORTAR SHALL BE OF THE SAME MIX AND SAME MANUFACTURER FOR THE ENTIRE PROJECT.

F.10 MASONRY UNITS SHALL BE PLACED IN A FULL BED OF MORTAR IN BOTH HORIZONTAL AND VERTICAL JOINTS.

F.11 EXTEND SCHEDULED WATERPROOFING AT EXTERIOR FOUNDATION WALLS FROM BOTTOM OF FOOTINGS TO GRADE AND TUCK INTO CAST IN REGLET UNLESS OTHER WISE SHOWN.

G. MISCELLANEOUS NOTES

G.01 ALL BASE BUILDING INTERIOR PARTITIONS SHALL WITHSTAND MINIMUM INWARD AND OUTWARD ACTING PRESSURES OF 5 PSF.

G.02 ALL DISSIMILAR METALS SHALL BE EFFECTIVELY ISOLATED FROM EACH OTHER TO AVOID MOLECULAR BREAKDOWN.

G.04 PROVIDE ACCESS PANELS AS REQUIRED BY APPLICABLE CODES AND AS REQUIRED FOR ACCESS OR MAINTENANCE OF MECHANICAL AND ELECTRICAL EQUIPMENT INCLUDING JUNCTION BOXES. ALL ACCESS PANELS LOCATIONS SHALL BE REVIEWED WITH THE ARCHITECT PRIOR TO PROCEEDING. ACCESS PANELS IN FINISHED DRYWALL AREAS SHALL BE OF THE TYPE THAT ACCEPTS DRYWALL INFILL.

G.05 WHETHER OR NOT EXPLICITLY INDICATED, ALL GLAZING SHALL BE SAFETY GLAZED WHEN WITHIN 18" (INCHES) OF THE FLOOR OR WITHIN 9'-0" (900MM) HORIZONTAL DISTANCE FROM ANY DOOR ALONG PEDESTRIAN PATHS. A CERTIFICATE MUST ACCOMPANY ALL GLAZING PRODUCTS STATING THAT THE PRODUCTS CONFORM WITH APPLICABLE CONSUMER PRODUCT SAFETY STANDARDS.

G.06 ALL EXTERIOR JOINTS AROUND WINDOW AND DOOR FRAMES BETWEEN WALLS AND FOUNDATION, BETWEEN WALLS AND ROOF, BETWEEN WALL PANELS, AT PENETRATION OF UTILITIES THROUGH THE ENVELOPE SHALL BE SEALED, CAULKED OR WEATHER-STRIPPED TO PREVENT AIR LEAKAGE/INFILTRATION.

G.07 ALL EXPOSED MECHANICAL AND ELECTRICAL EQUIPMENT, LOUVERS, PIPING, CONDUITS, ETC SHALL BE FINISHED WITH INDUSTRIAL ENAMEL PAINT AND COLOR CODED AND/OR AS DIRECTED.

G.08 ALL RECESSED CABINETS, PANELS, BOXES LOCATED IN FIRE-RATED WALLS SHALL BE INSTALLED AS TO MAINTAIN THE FIRE-RATED CONSTRUCTION. PROVIDE ADDITIONAL FRAMING, DRYWALL OR BLOCK AS REQUIRED TO MAINTAIN RATING.

G.09 UNLESS NOTED TO BE EXPOSED, ALL MECHANICAL AND ELECTRICAL DISTRIBUTION SYSTEMS TO BE CONCEALED IN CHASES, WALLS, CEILING SPACES ETC., IN EXISTING CONSTRUCTION, MATCH ADJACENT MATERIALS, TEXTURES AND COLORS (WALLS, FLOORS, BASE, CEILING)

FGM ARCHITECTS

G1.01

VILLAGE OF MAYWOOD
40 MADISON STREET
MAYWOOD, IL 60153

USER NAME = mmicholowicz	DESIGNED - MBT	REVISED -
	DRAWN - MBT	REVISED -
PLOT SCALE = 1'	CHECKED - MEK	REVISED -
PLOT DATE = 1/22/2016	DATE - 01/25/16	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

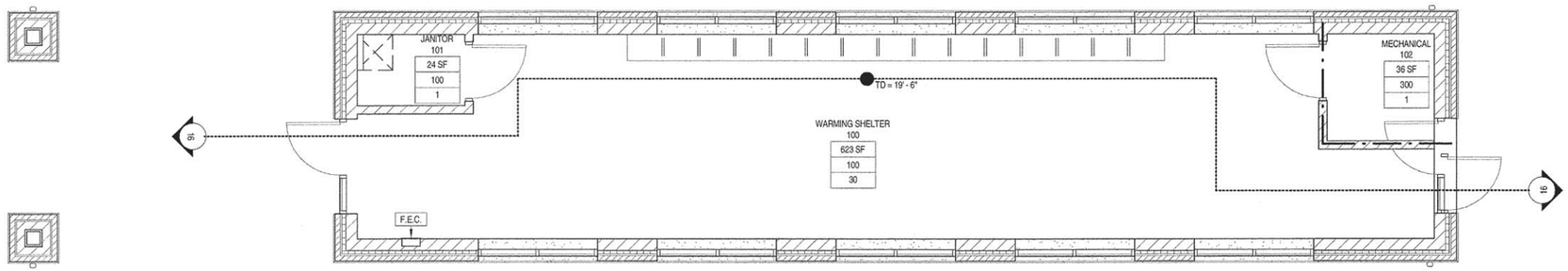
MAYWOOD METRA STATION

ARCHITECTURAL GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-00136-00-RR	COOK	65	31
		CONTRACT NO. 61C74		
	ILLINOIS FED. AID PROJECT			

FILE NAME = N:\MAYWOOD\138128\Maywood-DPW\A001.DGN



1 **CODE PLAN**

1/4" = 1'-0"

GENERAL NOTES

1. FIRE RATED WALLS AND PARTITIONS SHALL BE CONTINUOUS, WITHOUT GAPS IN HORIZONTAL AND VERTICAL DIRECTIONS. SEAL ALL PENETRATIONS ACCORDING TO SPECIFIED OR SELECTED UL TESTS.
2. IN ADDITION TO SIGNS REQUIRED BY THE SPECIFICATIONS FOR EACH PENETRATION, PROVIDE STENCILLED SIGNS AT ALL ACCESSIBLE CONCEALED FLOOR, CEILING OR ATTIC SPACE WHICH INCORPORATES THE WORDS: "FIRE AND/OR SMOKE BARRIER - PROTECT ALL OPENINGS". PROVIDE AT LEAST ONE OR MORE SIGNS ON BOTH SIDES OF EACH WALL SEGMENT SPACED AT LEAST 15' APART. LETTERING SHALL BE AT LEAST 2" IN HEIGHT.

VILLAGE OF MAYWOOD APPLICABLE CODES:

1.	2003	INTERNATIONAL BUILDING CODE
2.	2004	ILLINOIS PLUMBING CODE (77 ILL. ADM. CODE 890)
3.	2012	INTERNATIONAL ENERGY CONSERVATION CODE
4.	1997	ILLINOIS ACCESSIBILITY CODE (71 ILL. ADM. CODE 400)
5.	2000	NFPA 101, LIFE SAFETY CODE
6.	2006	INTERNATIONAL PROPERTY MAINTENANCE CODE
7.	2003	INTERNATIONAL FIRE CODE
8.	1999	NATIONAL ELECTRICAL CODE

BUILDING AREAS:

FIRST FLOOR GROSS ENCLOSED AREA: 880 SF
TOTAL GROSS ENCLOSED AREA: 880 SF

CODE COMPLIANCE NOTES:

1. BUILDING USES : BUSINESS B,
   BUILDING TYPE : 2B (Table 601)
   FIRE PROTECTION SYSTEMS: NA
   OCCUPANCY CLASSIFICATIONS: (Sections 302-312, 408)

3. AREA CALCULATIONS (NON-SEPARATED MIXED USE GROUPS)

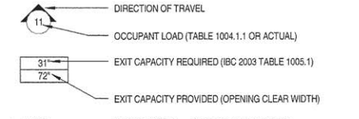
ITEM	% FACTOR
% OF ALLOWABLE TABULAR AREA	100
% REDUCTION FOR HEIGHT	0
% INCREASE FOR OPEN PERIMETER	13
% INCREASE FOR AUTOMATIC SPRINKLER	0
TOTAL PERCENTAGE FACTOR	113%
CONVERSION FACTOR (TOTAL PERCENTAGE FACTOR / 100%)	1.13

FRONTAGE (Section 506.2)	N - 62' E - 0' W - 0' S - 0'
TOTAL FRONTAGE	62 FT
PERIMETER	148 FT
WIDTH OF OPEN SPACE	25 FT
AREA INCREASE - FRONTAGE I = [(F/P)-0.25]xW/30	.13 (13%)

USE GROUP	B	I-3	S-1	H-3	
ALLOWABLE TABULAR AREA (SF)	23,000	0	0	0	
ACTUAL FLOOR AREA - TOTAL (SF)					RATIO ADJUSTED FLOOR AREA / ALLOWABLE AREA (Must be </= 3.0)
GROUND FLOOR (SF)	880	0	0	0	
ADJUSTED FLOOR AREA: ACTUAL AREA / CONVERSION FACTOR					
GROUND FLOOR (SF)	778	0	0	0	0.03
				TOTAL	0.03

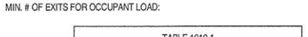
4. FIRE-RESISTANCE LEGEND:
   1-HR. FIRE SEPARATION ASSEMBLY
5. OCCUPANCY LEGEND:
   OCCUPANT LOAD: CALCULATED BY ROOM SQUARE FOOTAGE (IBC 2003 TABLE 1004.1.1) OR ACTUAL OCCUPANT LOAD ("0" INDICATES THAT THE ACTUAL OCCUPANT WAS USED)

6. EXITING LEGEND:



* NOTE: EXIT CAPACITY: DOORS: 0.15 IN / PERSON
STAIRS: NO EGRESS STAIR IN PROJECT

7. MAXIMUM TRAVEL DISTANCE



DISTANCE TO EXIT (Table 1016.1) : BUSINESS B: MAX. 300 FEET

COMMON PATH OF TRAVEL: 100 FEET

MIN. # OF EXITS FOR OCCUPANT LOAD:

TABLE 1019.1	
OCCUPANT LOAD (per story)	MIN. NO. OF EXITS (per story)
1 - 500	2
500 - 1000	3
More than 1000	4

DEAD END: MAX. 50 FEET (Section 1017.3)

8. F.E.C. FIRE EXTINGUISHER CABINET RECESSED - U.N.O. (1 PER 3,000 SF & 75 FT. MAX. TRAVEL)
   F.E. SURFACE-MOUNTED FIRE EXTINGUISHER (Section 906)
   S.P.V.C. STAND PIPE VALVE CABINET - STAGE ONLY (Section 410.7) (Section 905)

Fire-Resistive Requirements:

For Type 2B Construction
Ratings for Building Elements (in hours):
Fire Resistance Rating Requirements for building elements (Table 601) :

1. a. Structural Frame: 0 hr
   (columns, girders, beams, joists, spandrels and bracing)
   b. Exterior Bearing Walls: N/A
   c. Interior Bearing Walls: 0 hr
   d. Non-bearing walls and partitions - Exterior: 0 hr
   e. Non-bearing walls and partitions - Interior: 0 hr
   f. Floor Construction, including supporting beams and joists: 0 hr
   g. Roof Construction, including supporting beams and joists: 0 hr

   Fire Walls and Party Walls : N/A

   Fire Separation Assemblies :
   a. Exit (stair) enclosures: N/A, refer to Section 707.2 (Shaft Opening Protected by Draft Curtain and Closely Spaced Sprinkler Heads)
   b. Shaft Enclosures / Elevator Hoistways: 1 hr. (Section 708)
   c. Mixed Use / Fire Separation Assemblies: 1 hr. (Business B, Institutional I-3, Storage S-2) (Table 508.3.3)
   d. Other Separation Assemblies: N/A
   e. Shafts: N/A

   Fire Partitions :
   a. Exit Access Corridors: 0 hr. (Table 1017.1)
   b. Combustibility (Sections 602.2, 602.3, 602.4, 602.5, 603)
      1. Exterior Walls: Non-combustible
      2. Interior Elements: Non-combustible
      3. Roof: Non-combustible

2. Other Requirements : Incidental Use Areas (Table 508.2) / (Table 715.4):
   a. Mechanical / Electrical /Pump: 1 hr. / 60 min. doors

FGM ARCHITECTS

G1.03

VILLAGE OF MAYWOOD
40 MADISON STREET
MAYWOOD, IL 60153

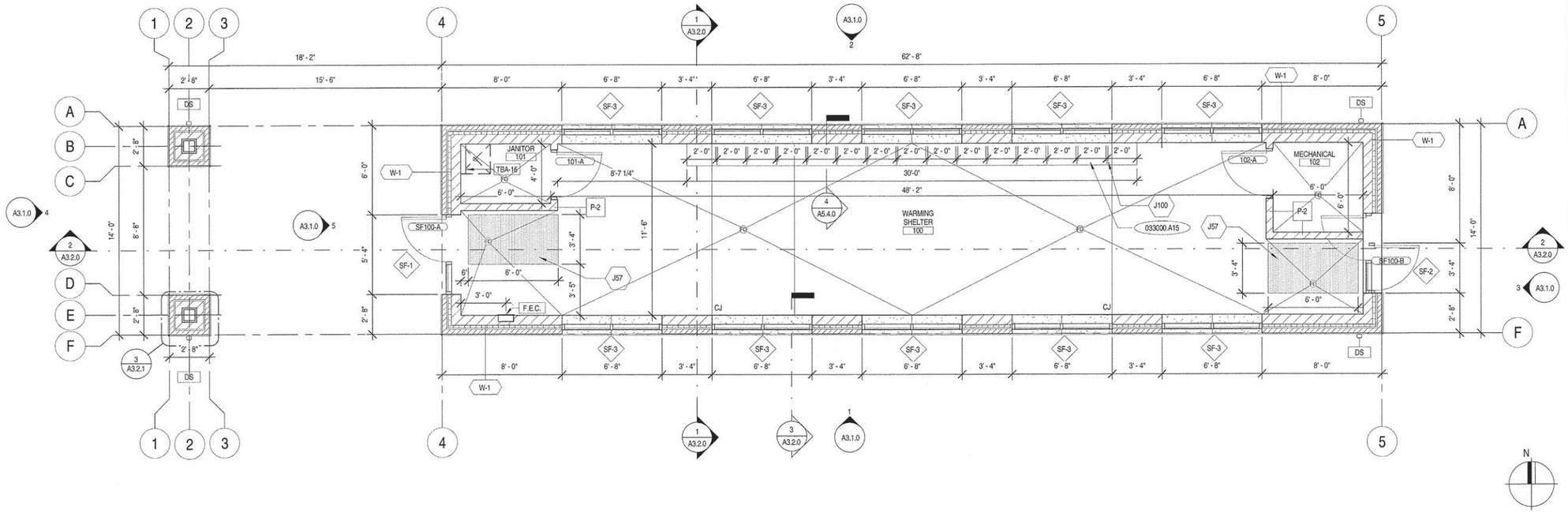
USER NAME = mmichalowicz	DESIGNED - MBT	REVISED -	
	DRAWN - MBT	REVISED -	
PLOT SCALE = 1'	CHECKED - MEK	REVISED -	
PLOT DATE = 1/22/2016	DATE - 01/25/16	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAYWOOD METRA STATION
ARCHITECTURAL CODE PLAN
SCALE: SHEET OF SHEETS STA. TO STA.

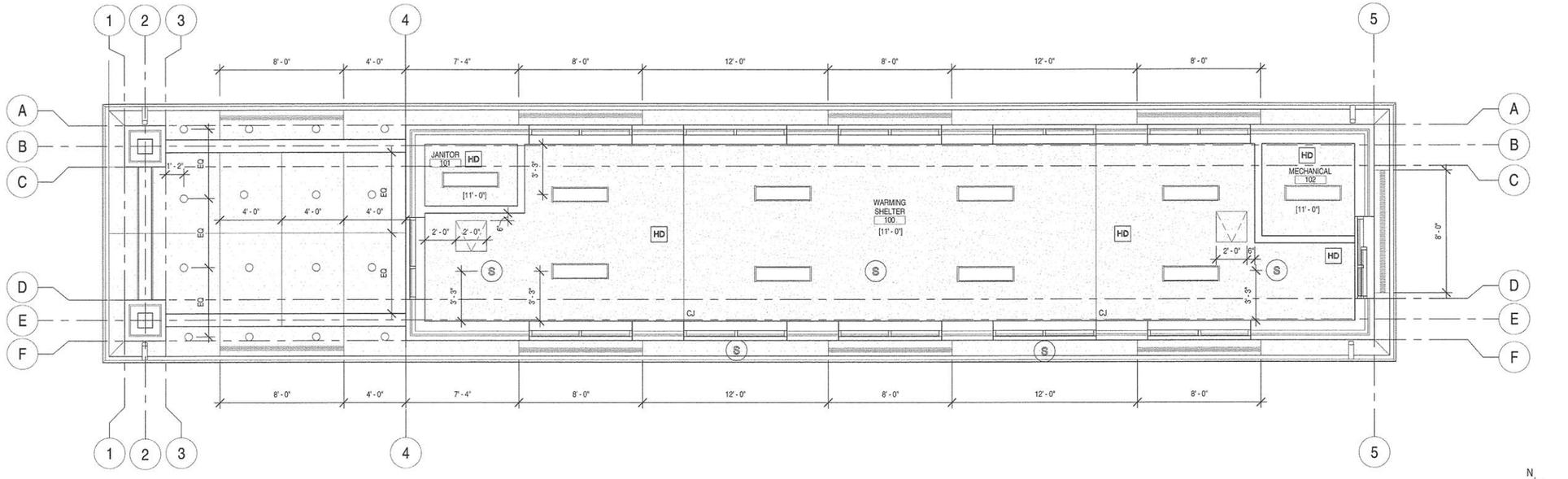
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-00136-00-RR	COOK	65	32
		CONTRACT NO. 61C74		
	ILLINOIS FED. AID PROJECT			

FILE NAME = N:\MAYWOOD\130128\Maywood-UPW\A100.DGN



2 FLOOR PLAN

1/4" = 1'-0"



1 REFLECTED CEILING PLAN

1/4" = 1'-0"

KEYNOTES - SHEET

KEY NUMBER	DESCRIPTION
J57	INSET WALKOFF MAT
J100	STAINLESS STEEL BENCH DIVIDER

KEYNOTES - REFERENCE

KEY NUMBER	DESCRIPTION
033000.A15	CONCRETE BENCH

- FIBER CEMENT SOFFIT BOARD — 1/4" FIBER CEMENT SOFFIT BOARD
- INTEGRAL SOFFIT VENT — 1/4" FIBER CEMENT SOFFIT BOARD W/ INTEGRAL VENT
- GYPSUM BOARD CEILING — 5/8" GYPSUM BOARD FASTENED TO UNDERSIDE OF TRUSSES.
- SURFACE MOUNTED FLUORESCENT FIXTURE
- ⌀ RECESSED DIRECTIONAL CAN LIGHT
- HD HEAT/SMOKE DETECTOR - SEE MEP DRAWINGS FOR ADDITIONAL INFORMATION
- (S) SPEAKER - SEE MEP DRAWINGS FOR ADDITIONAL INFORMATION
- AP ACCESS PANEL.
- CJ CONTROL JOINT
- [11'-0"] CEILING HEIGHT OR SOFFIT HEIGHT A.F.F. TYPICAL CEILING HEIGHT IS 11'- 0" U.N.O.
- ROOM 123 ROOM NUMBER

R.C.P. LEGEND

1/8" = 1'-0"

GENERAL FLOOR PLAN NOTES

1. REFER TO PARTITION TYPES FOR THICKNESS OF WALLS AND PARTITIONS.
2. WALL AND PARTITION DIMENSIONS ARE SHOWN TO FINISHED FACE OF WALL
3. UNLESS OTHERWISE NOTED, WALLS AND PARTITIONS WHICH ARE SHOWN TO BE ON A GRID LINE OR IMMEDIATELY NEXT TO A GRID LINE SHALL BE LOCATED PARALLEL WITH THE GRID LINE WITH THE FACE OF THE WALL 1" AWAY FROM THE LEG OF THE STEEL JOIST
4. WALLS AND PARTITIONS WHICH ARE NOT INTENDED TO BE LAID OUT ON A RADIUS, ARE SHOWN TO BE PERPENDICULAR (--) OR AT SOME ANGLE) --) TO THE ADJOINING WALLS OR PERPEDICULAR TO A GRID LINE (--).
5. FOR WINDOW AND STOREFRONT TYPES, SEE ELEVATIONS ON DOOR AND STOREFRONT DETAIL SHEET
6. FOR TYPICAL ROOM SIGNS AND FIRE EXTINGUISHER CABINET DETAILS, SEE INTERIOR DETAIL SHEET
7. SEE ARCHITECTURAL NOTES SYMBOLS AND ABBREVIATIONS SHEET FOR ACRONYMS AND ABBREVIATIONS.
8. USE OF SPECIFICATION SECTION NUMBERS WITHIN KEY NOTES IS MADE SOLELY FOR CONVENIENCE IN COORDINATION AND WITHOUT LIMITATION. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE WORK IN ACCORDANCE TO THE CONTRACT DOCUMENTS IN THEIR ENTIRETY
9. USE OF MANUFACTURER'S CONTENT WITHIN THE DRAWINGS IS MADE SOLELY FOR CONVENIENCE IN ILLUSTRATING THE REQUIREMENTS OF THE PROJECT. THE CONTRACTOR IS REQUIRED TO PROVIDE PRODUCTS SPECIFIED AND APPROVED THROUGH THE SUBMITTAL PROCESS.

FGM ARCHITECTS

A1.1.0

VILLAGE OF MAYWOOD
40 MADISON STREET
MAYWOOD, IL 60153

USER NAME = mmichalowicz	DESIGNED - MBT	REVISED -	
	DRAWN - MBT	REVISED -	
PLOT SCALE = 1'	CHECKED - MEK	REVISED -	
PLOT DATE = 1/22/2016	DATE - 01/25/16	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAYWOOD METRA STATION

FLOOR PLAN AND REFLECTED CEILING PLAN

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-00136-00-RR	COOK	65	33
		CONTRACT NO. 61C74		
	ILLINOIS FED. AID PROJECT			

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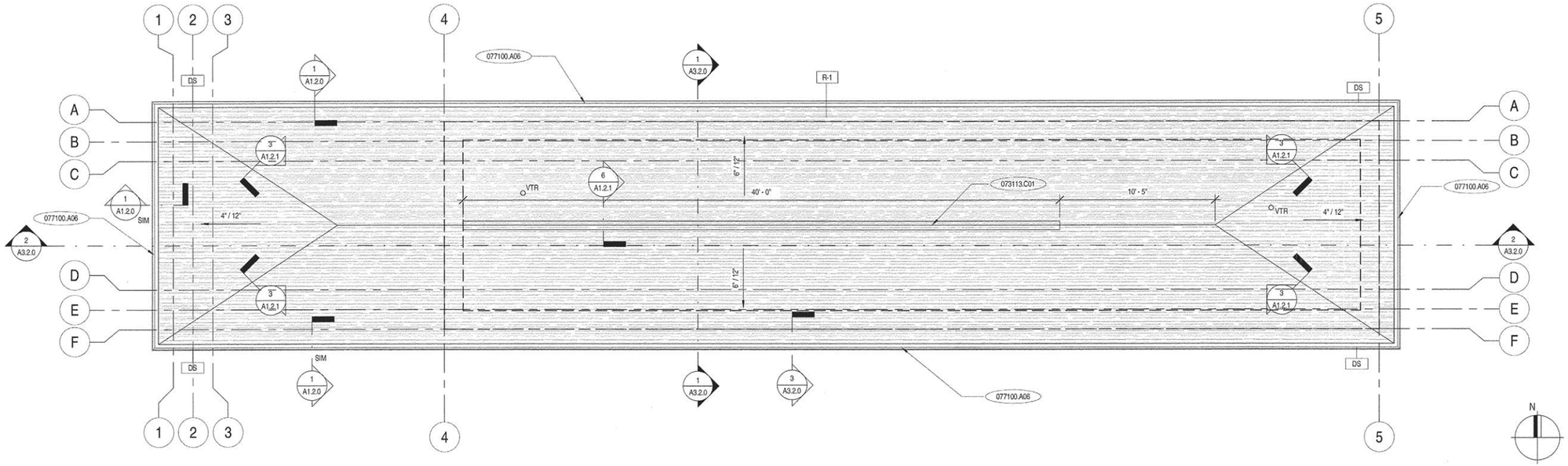
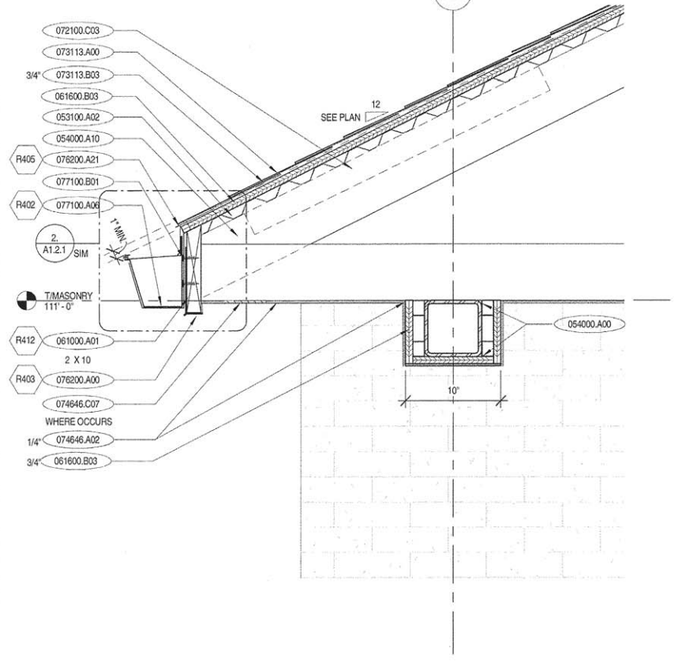


4 ROOF PLAN

1/4" = 1'-0"

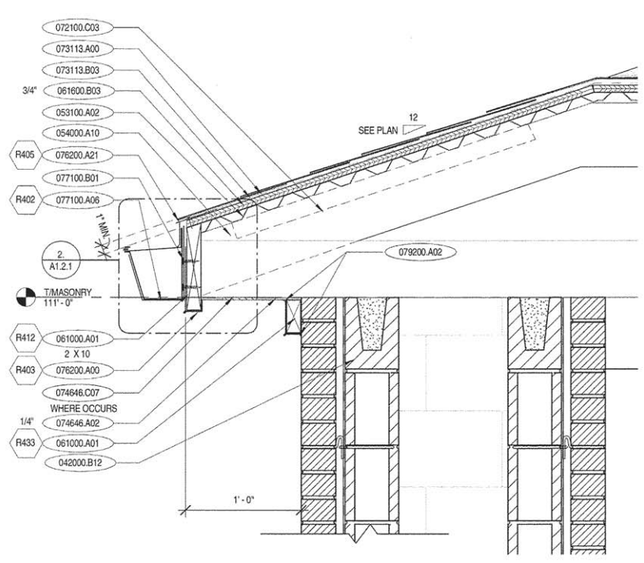
KEYNOTES - SHEET	
KEY NUMBER	DESCRIPTION
R402	GUTTER STRAPS AT 30" O.C. MAX
R403	SUB FASCIA WRAPPED IN PRE-FINISHED ALUM. W/ DRIP EDGE
R405	DRIP EDGE TO LAP 6" MIN UNDER ROOF SHEET UNDERLAYMENT
R412	WOOD BLOCKING / MEMBERS SHALL BE FIRE TREATED
R433	2 X 4 WRAPPED IN PRE-FINISHED ALUM. W/ DRIP EDGE

KEYNOTES - REFERENCE	
KEY NUMBER	DESCRIPTION
042000.B12	BOND BEAM CMU
053100.A02	ROOF DECK
054000.A00	COLD-FORMED METAL FRAMING
054000.A10	ROOF TRUSS
061000.A01	FRAMING WITH DIMENSION LUMBER
061600.B03	PLYWOOD
072100.A10	UNFACED, MINERAL-WOOL BLANKET INSULATION
072100.A18	VAPOR RETARDER
072100.C03	EAVE VENTILATION THROUGH
073113.A00	ASPHALT SHINGLES
073113.B03	SELF-ADHERING SHEET UNDERLAYMENT
073113.C01	RIDGE VENT
074646.A02	FIBER-CEMENT SOFFIT PANEL
074646.C07	SOFFIT VENT
076200.A00	SHEET METAL FLASHING AND TRIM
076200.A21	DRIP EDGE
077100.A06	GUTTER
077100.B01	FASTENER
079200.A02	SEALANT
092900.A00	GYPSUM BOARD



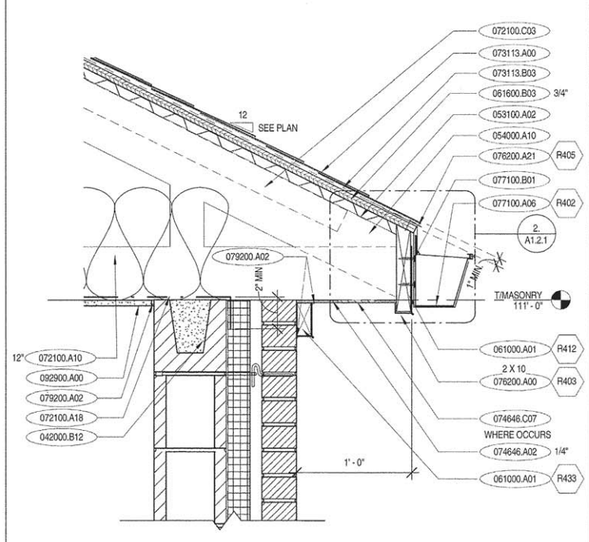
1 ROOF DETAIL

1 1/2" = 1'-0"



2 ROOF DETAIL

1 1/2" = 1'-0"



3 ROOF DETAIL

1 1/2" = 1'-0"

ASPHALT SHINGLES

ROOF TYPE

DS DOWNSPOUT

DIRECTION OF FLOW

EXTERIOR WALL BELOW

VTR VENT THRU ROOF. REFER TO ROOF DETAILS AND MEP DRAWINGS

ROOF PLAN LEGEND

1/8" = 1'-0"

R-1 ROOF CONSTRUCTION

- [EXTERIOR AIR FILM] (R-0.17)
- ASPHALT SHINGLES (R-0.44)
- SELF-ADHERING SHEET UNDERLAYMENT (R-0)
- 3/4" PLYWOOD (R-0.94)
- 1" METAL DECKING(R-0)
- METAL TRUSSES (R-0)
- 12" BATT INSULATION @ BOTTOM CHORD OF METAL TRUSSES (R-48)
- IMPERMEABLE VAPOR BARRIER (R-0)
- 5/8" GYPSUM BOARD (R-0.56)
- [INTERIOR AIR FILM] (R-0.68)

ROOF CONSTRUCTION

12" = 1'-0"

GENERAL ROOF NOTES

1 COORDINATE ROOF PENETRATIONS WITH MECHANICAL, PLUMBING AND ELECTRICAL CONTRACTORS.

2 DIMENSIONS AND LOCATIONS OF EQUIPMENT ON THE ROOF ARE APPROXIMATE. DO NOT SCALE THE DRAWINGS.

3 SEE THIS SHEET FOR TYPICAL ROOFING DETAILS.

ROOF NOTES

FGM ARCHITECTS

A1.2.0

VILLAGE OF MAYWOOD
40 MADISON STREET
MAYWOOD, IL 60153

USER NAME = mmichalowicz	DESIGNED - MBT	REVISED -	
	DRAWN - MBT	REVISED -	
PLOT SCALE = 1'	CHECKED - MEK	REVISED -	
PLOT DATE = 1/22/2016	DATE - 01/25/16	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAYWOOD METRA STATION

ROOF PLAN AND DETAILS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-00136-00-RR	COOK	65	34
		CONTRACT NO. 61C74		
	ILLINOIS FED. AID PROJECT			

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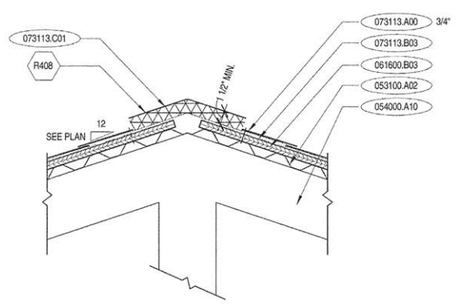
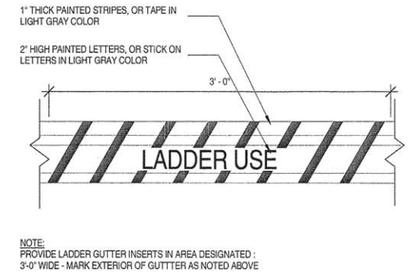


6 RIDGE VENT DETAIL

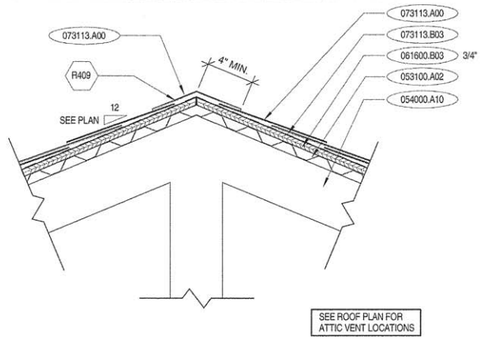
1 1/2" = 1'-0"



NOTE:
PROVIDE LADDER GUTTER INSERTS IN AREA DESIGNATED :
3'-0" WIDE - MARK EXTERIOR OF GUTTTER AS NOTED ABOVE

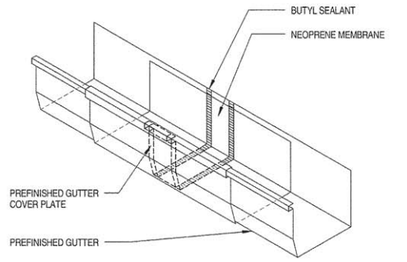
5 GUTTER MARKING DETAIL

1 1/2" = 1'-0"



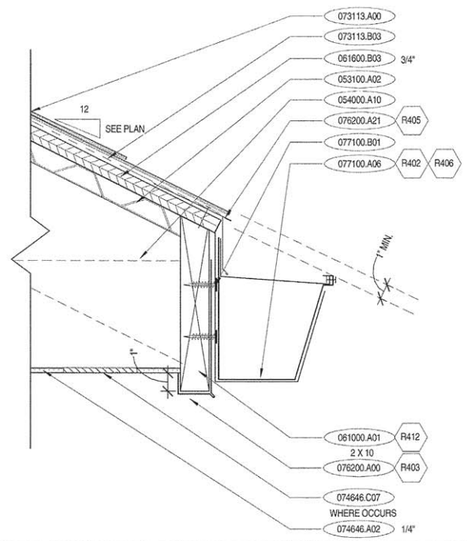
3 RIDGE DETAIL

1 1/2" = 1'-0"



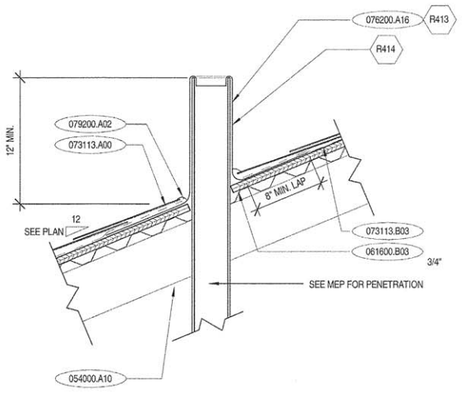
4 GUTTER EXP. JOINT DET.

1 1/2" = 1'-0"



2. ROOF DETAIL

3" = 1'-0"



1 PENETRATION DETAIL

1 1/2" = 1'-0"

KEYNOTES - SHEET

KEY NUMBER	DESCRIPTION
R402	GUTTER STRAPS AT 30" O.C. MAX
R403	SUB FASCIA WRAPPED IN PRE-FINISHED ALUM. W/ DRIP EDGE
R405	DRIP EDGE TO LAP 6" MIN UNDER ROOF SHEET UNDERLAYMENT
R406	4x4 METAL GUTTER
R408	INSTALL RIDGE VENT PER MANUFACTURER'S RECOMMENDATIONS
R409	PRE-FORMED RIDGE/HIP SHINGLES
R412	WOOD BLOCKING / MEMBERS SHALL BE FIRE TREATED
R413	TURN PIPE SLEEVE DOWN INTO PLUMBING VENT PIPE
R414	PIPE SLEEVE W/ FLANGE SET IN ROOF CEMENT

KEYNOTES - REFERENCE

KEY NUMBER	DESCRIPTION
053100.A02	ROOF DECK
054000.A10	ROOF TRUSS
061000.A01	FRAMING WITH DIMENSION LUMBER
061600.B03	PLYWOOD
073113.A00	ASPHALT SHINGLES
073113.B03	SELF-ADHERING SHEET UNDERLAYMENT
073113.C01	RIDGE VENT
074646.A02	FIBER-CEMENT SOFFIT PANEL
074646.C07	SOFFIT VENT
076200.A00	SHEET METAL FLASHING AND TRIM
076200.A16	ROOF-PENETRATION FLASHING
076200.A21	DRIP EDGE
077100.A06	GUTTER
077100.B01	FASTENER
079200.A02	SEALANT

VILLAGE OF MAYWOOD
40 MADISON STREET
MAYWOOD, IL 60153

USER NAME = mmicholowicz	DESIGNED - MBT	REVISED -	
	DRAWN - MBT	REVISED -	
PLOT SCALE = 1'	CHECKED - MEK	REVISED -	
PLOT DATE = 1/22/2016	DATE - 01/25/16	REVISED -	

FILE NAME = N:\MAYWOOD\13012B\Maywood-DPW\A103.DGN

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAYWOOD METRA STATION

ROOF DETAILS

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

FGM ARCHITECTS

A1.2.1

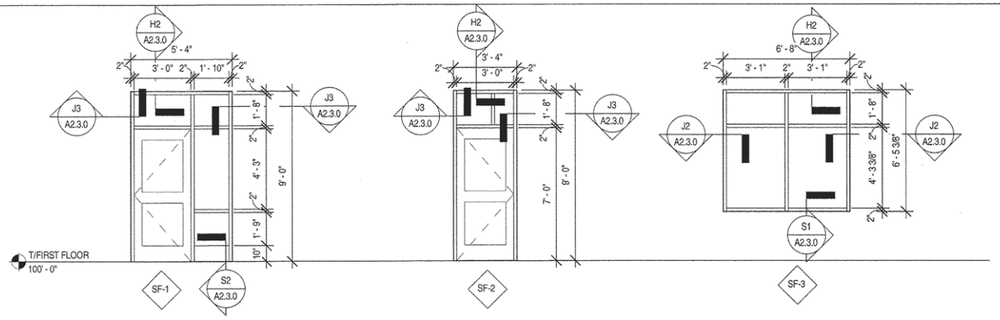
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-00136-00-RR	COOK	65	35
		CONTRACT NO. 61C74		
	ILLINOIS FED. AID PROJECT			

DOOR AND FRAME SCHEDULE

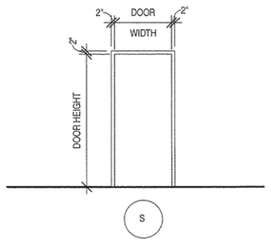
DOOR NUMBER	ROOM NAME	DOOR							FRAME				DETAIL							REMARKS
		LEAF	WIDTH	HEIGHT	TYPE	MATL	FINISH	GLASS	TYPE	MATL	FINISH	GLASS	HEAD	JAMB	JAMB	THRESH OLD	LABEL (MIN.)	SIGN	H'WARE S ET	
Level 1																				
101-A	JANITOR	1	3' - 0"	6' - 10"	F	HM	PT	-	S	HM	PT	-	H1	J1	J1	T1		A	1	
102-A	MECHANICAL	1	3' - 0"	6' - 10"	F	HM	PT	-	S	HM	PT	-	H1	J1	J1	T3	45	A	1	

DOOR SCHEDULE - STOREFRONT

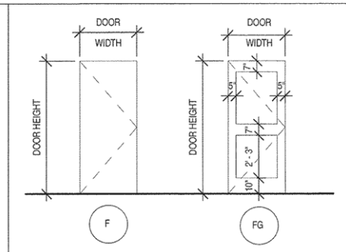
DOOR NUMBER	ROOM NAME	DOOR		DOOR					FRAME				DETAIL							REMARKS
		LEAF	WIDTH	HEIGHT	TYPE	MATL	FINISH	GLASS	TYPE	MATL	FINISH	GLASS	HEAD	JAMB	JAMB	THRESH OLD	LABEL (MIN.)	SIGN	H'WARE S ET	
Level 1																				
SF100-A	WARMING SHELTER	1	3' - 0"	7' - 0"	FG	AL	AN	GL-E	-	AL	AN	GL-E	-	-	-	T2	-	B	2	
SF100-B	WARMING SHELTER	1	3' - 0"	7' - 0"	FG	AL	AN	GL-E	-	AL	AN	GL-E	-	-	-	T2	-	B	2	
SF100-D		1	3' - 0"	7' - 0"	FG	AL	AN	GL-E	-	AL	AN	GL-E	-	-	-	T2	-	B	2	



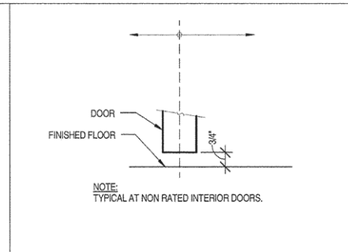
1 STOREFRONT TYPES
1/4" = 1'-0"



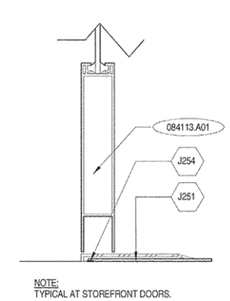
DOOR FRAME TYPES
1/4" = 1'-0"



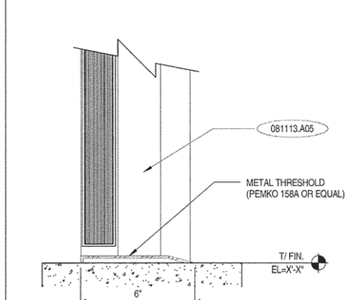
DOOR TYPES
1/4" = 1'-0"



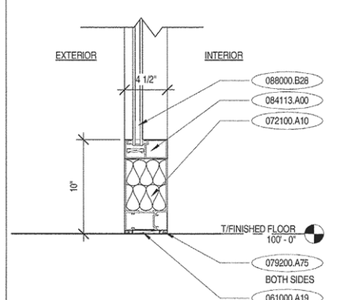
T1 THRESHOLD DETAIL
3" = 1'-0"



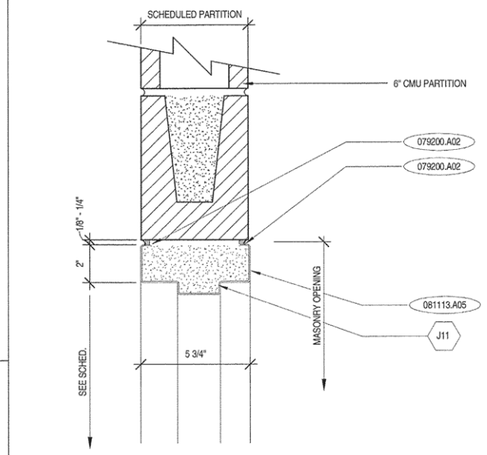
T2 THRESHOLD DETAIL
3" = 1'-0"



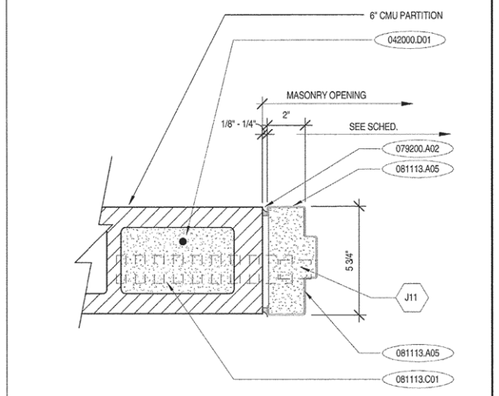
T3 SILL DTL. @ RATED DR.
3" = 1'-0"



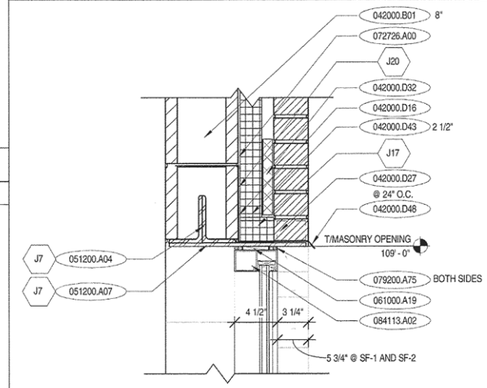
S2 SILL DETAIL
1 1/2" = 1'-0"



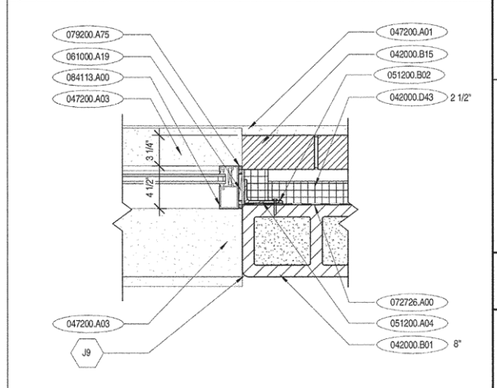
H1 HEAD DETAIL
3" = 1'-0"



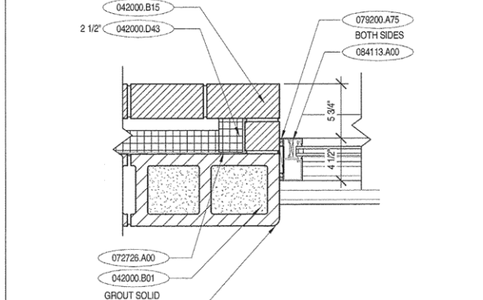
J1 JAMB DETAIL
3" = 1'-0"



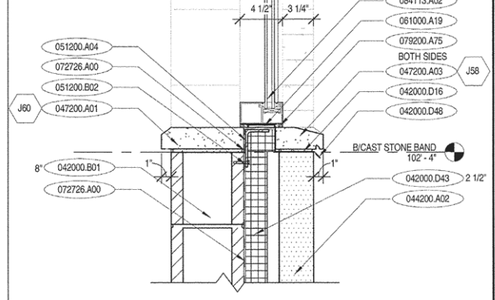
H2 HEAD DETAIL
1 1/2" = 1'-0"



J2 JAMB DETAIL
1 1/2" = 1'-0"



J3 JAMB DETAIL
1 1/2" = 1'-0"



S1 SILL DETAIL
1 1/2" = 1'-0"

KEYNOTES - REFERENCE

KEY NUMBER	DESCRIPTION
042000.B01	CONCRETE MASONRY UNIT
042000.B15	FACE BRICK
042000.D01	REINFORCEMENT
042000.D16	FLEXIBLE FLASHING
042000.D27	CELLULAR PLASTIC WEEP/VENT
042000.D32	CAVITY DRAINAGE MATERIAL
042000.D43	CAVITY-WALL INSULATION
042000.D48	STAINLESS STEEL DRIP EDGE
044200.A02	LIMESTONE CLADDING
047200.A01	CAST STONE TRIM
047200.A03	CAST STONE WINDOW SILL
051200.A04	ANGLE
051200.A07	PLATE
051200.B02	BOLT
061000.A19	WOOD BLOCKING, CANTS, AND NAILER
072100.A10	UNFACED, MINERAL-WOOL BLANKET INSULATION
072726.A00	FLUID-APPLIED MEMBRANE AIR BARRIERS
079200.A02	SEALANT
079200.A75	JOINT SEALANT AND BACKER ROD
081113.A05	HOLLOW METAL FRAME
081113.C01	JAMB ANCHOR
084113.A00	ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS
084113.A01	ALUMINUM-FRAMED ENTRANCES AND STOREFRONT
084113.A02	STOREFRONT FRAMING
088000.B28	LOW-E, CLEAR INSULATING GLASS

KEYNOTES - SHEET

KEY NUMBER	DESCRIPTION
J7	SEE STRUCTURAL SERIES
J9	PROVIDE BULLNOSE CORNER AS SHOWN
J11	GROUT SOLID
J17	FILL WALL CAVITY SOLID WITH INSULATION AS SHOWN AT OPENING
J20	LAP WEATHER BARRIER 4" MIN OVER FLASHING (TYP.).
J58	CAST STONE "SHAPE A"
J60	CAST STONE "SHAPE C"
J251	DOOR SWEEP AT EXTERIOR SIDE WHERE SPECIFIED
J254	FINISHED FLOOR MATERIAL

DOOR LEGEND

F - # FLUSH
FG - # FULL GLASS
S - # SINGLE

FRAME LEGEND

S-# SINGLE
SF-# STOREFRONT

MATERIAL LEGEND

HM - HOLLOW METAL
AL - ALUMINUM
PT - PAINT
AN - ANODIZED
TG - TEMPERED GLASS
IT - INSULATED TEMPERED GLASS

DOOR SCHEDULE LEG.
12" = 1'-0"

GLASS TYPES

GL-E 1" LOW E-INSULATING TEMPERED GLASSS

GLASS TYPES LEGEND
12" = 1'-0"

GENERAL DOOR SCHEDULE NOTES

1. ALL DOORS SHALL BE 1 3/4" THICK UNLESS OTHERWISE NOTED.
2. HEAD, JAMB AND THRESHOLD DETAILS ARE NUMBERED AS, H-#, J-# AND S-#, IN A RUNNING FASHION, WITHOUT REGARD FOR WHAT SHEET THEY ARE PLACE IN.
3. FOR HARDWARE SCHEDULE INFORMATION SEE DIV. 8 SPECIFICATION SECTION.
4. ALL DOORS SHALL HAVE A 3/4" MAXIMUM UNDERCUT UNLESS NOTED OTHERWISE.
5. GROUT SOLID HOLLOW METAL FRAMES OCCURRING IN CONCRETE, PRE-CAST CONCRETE OR MASONRY WALLS.
6. PACK HOLLOW METAL FRAMES OCCURRING IN METAL STUD WALLS WITH GYPSUM.
7. PROVIDE INSULATED GLASS WHERE GLASS IS INDICATED FOR EXTERIOR DOOR LOCATIONS
8. PROVIDE INSULATED DOORS AT ALL EXTERIOR DOOR LOCATIONS.
9. THE WIDTH OF HOLLOW METAL FRAMES IN CMU PARTITIONS OR WALLS SHALL BE EQUAL TO THE ACTUAL THICKNESS OF THE PARTITION OR WALL PLUS 1/2" ON EACH SIDE.
10. PROVIDE BLOCKING AS REQUIRED FOR INSTALLATION OF JAMBS

FGM ARCHITECTS

A2.3.0

VILLAGE OF MAYWOOD
40 MADISON STREET
MAYWOOD, IL 60153

USER NAME = mmichalowicz	DESIGNED - MBT	REVISED -	
	DRAWN - MBT	REVISED -	
PLOT SCALE = 1'	CHECKED - MEK	REVISED -	
PLOT DATE = 1/22/2016	DATE - 01/25/16	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAYWOOD METRA STATION

DOOR AND STOREFRONT DETAILS AND NOTES

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-00136-00-RR	COOK	65	36
		CONTRACT NO. 61C74		
	ILLINOIS FED. AID PROJECT			

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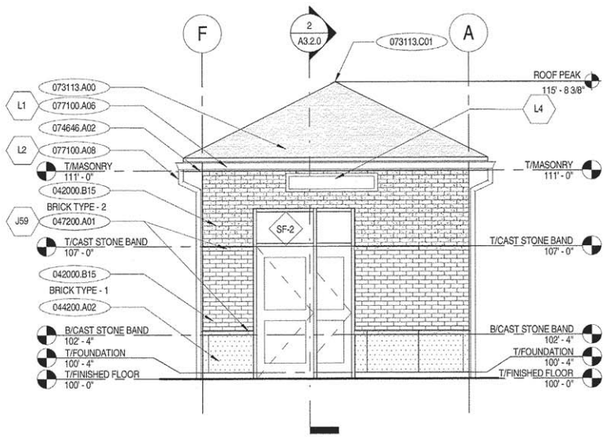
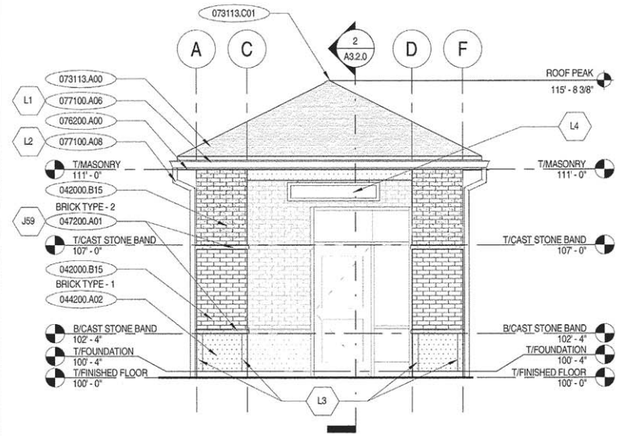


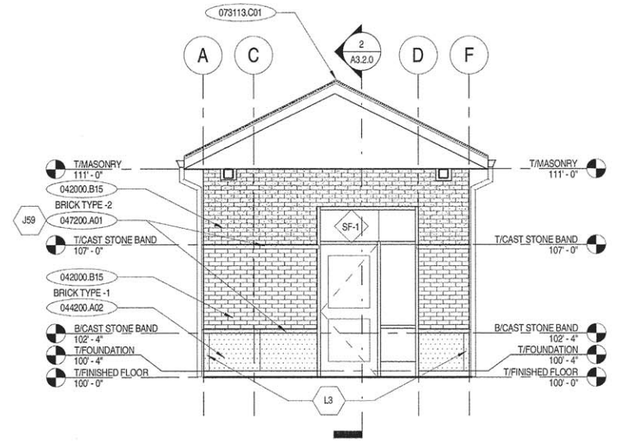
3 **EAST ELEVATION**

1/4" = 1'-0"



4 **WEST ELEVATION - A**

1/4" = 1'-0"

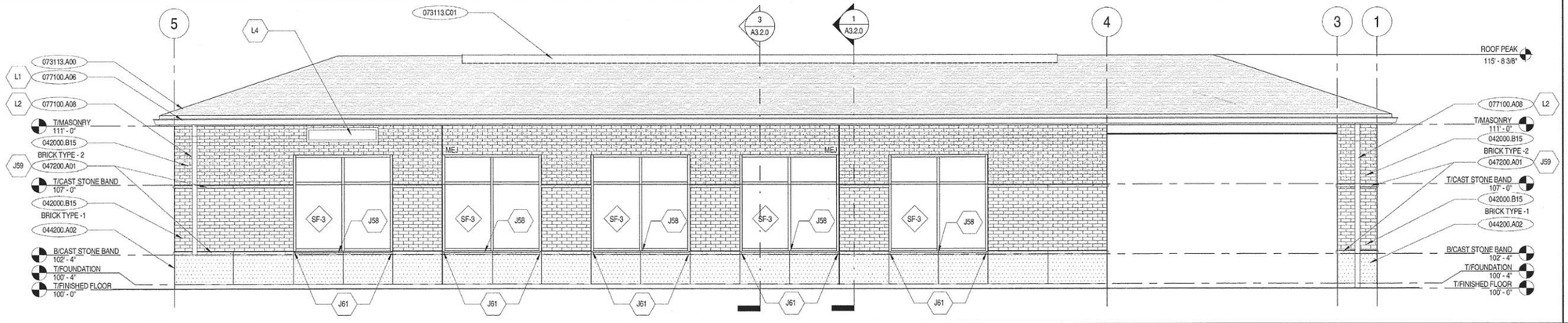


5 **WEST ELEVATION - B**

1/4" = 1'-0"

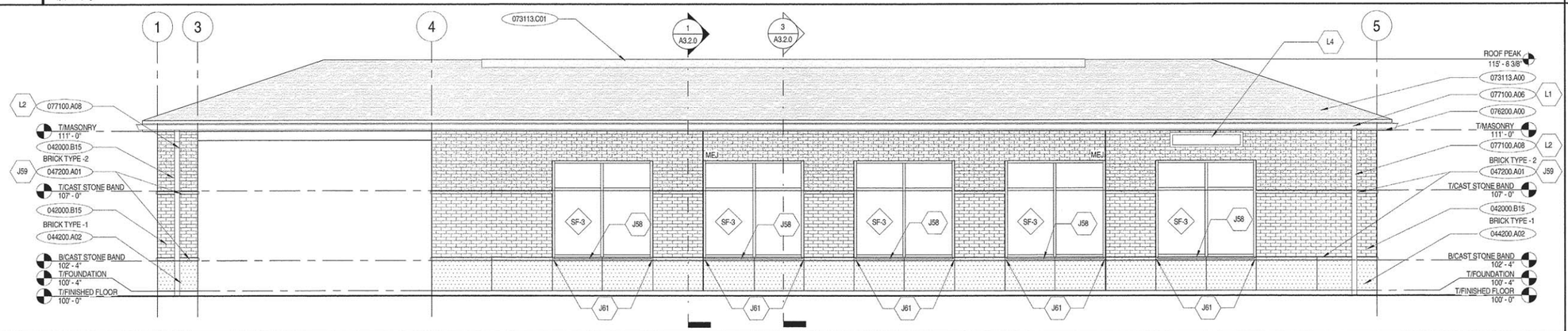
KEYNOTES - REFERENCE	
KEY NUMBER	DESCRIPTION
042000.B15	FACE BRICK
044200.A02	LIMESTONE CLADDING
047200.A01	CAST STONE TRIM
073113.A00	ASPHALT SHINGLES
073113.C01	RIDGE VENT
074646.A02	FIBER-CEMENT SOFFIT PANEL
076200.A00	SHEET METAL FLASHING AND TRIM
077100.A06	GUTTER
077100.A08	DOWNSPOUT

KEYNOTES - SHEET	
KEY NUMBER	DESCRIPTION
J58	CAST STONE "SHAPE A"
J59	CAST STONE "SHAPE B"
J61	PROVIDE FOR SLOPED TRANSITION BETWEEN CAST STONE SILL AND TRIM PROFILES
L1	4X4 GUTTER, PITCH AT 1/16"/FT. MIN TO DOWNSPOUTS.
L2	4x4 DOWNSPOUT
L3	PROVIDE BUTT JOINT AT LIMESTONE PANEL CORNER INTERSECTIONS.
L4	METRA REQUIRED SIGNAGE TO BE MOUNTED WITH EYLETS AND CHAINS TO UNDERSIDE OF SOFFIT. MOUNTING TO BE DESIGNED TO RESIST AREA WIND LOADS.



2 **NORTH ELEVATION**

1/4" = 1'-0"



1 **SOUTH ELEVATION**

1/4" = 1'-0"

MATERIAL LEGEND

1/4" = 1'-0"

FGM ARCHITECTS

A3.1.0

VILLAGE OF MAYWOOD
40 MADISON STREET
MAYWOOD, IL 60153

USER NAME = mmichalowicz	DESIGNED - MBT	REVISED -	
	DRAWN - MBT	REVISED -	
PLOT SCALE = 1'	CHECKED - MEK	REVISED -	
PLOT DATE = 1/22/2016	DATE - 01/25/16	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

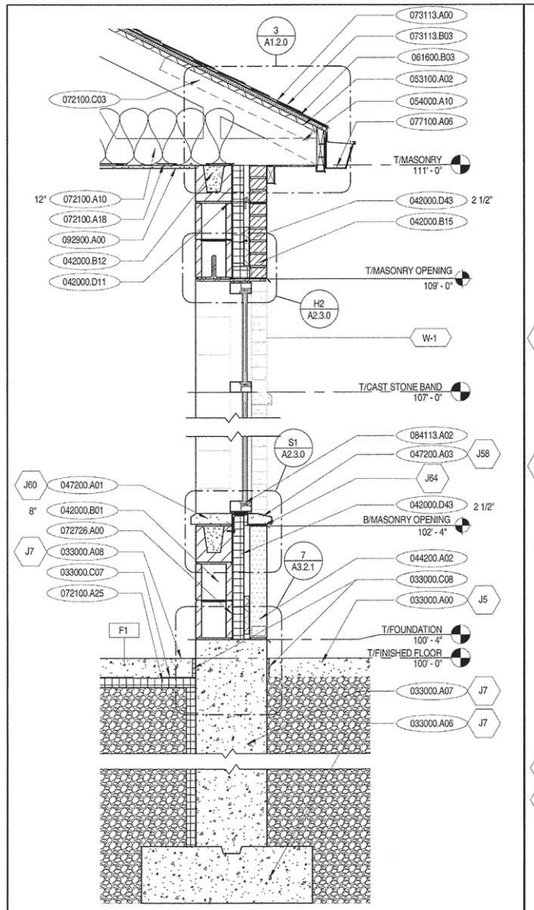
MAYWOOD METRA STATION

EXTERIOR BUILDING ELEVATIONS

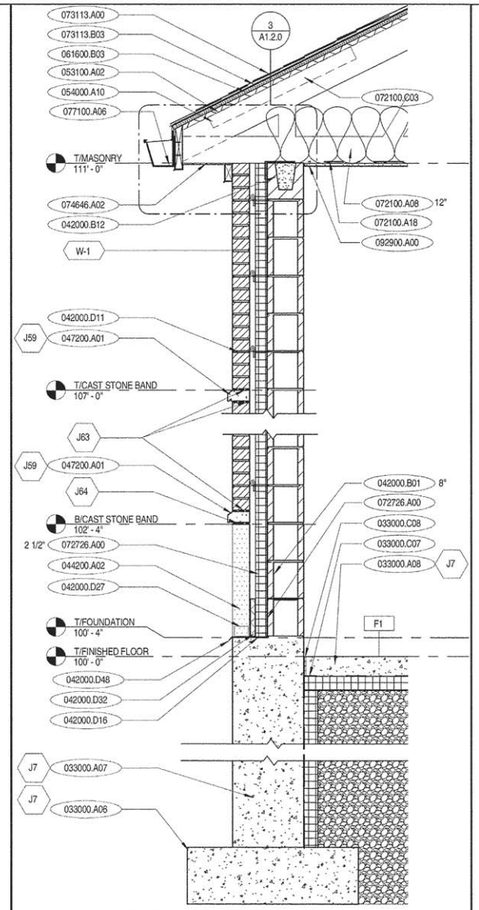
SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-00136-00-RR	COOK	65	37
		CONTRACT NO. 61C74		
	ILLINOIS FED. AID PROJECT			

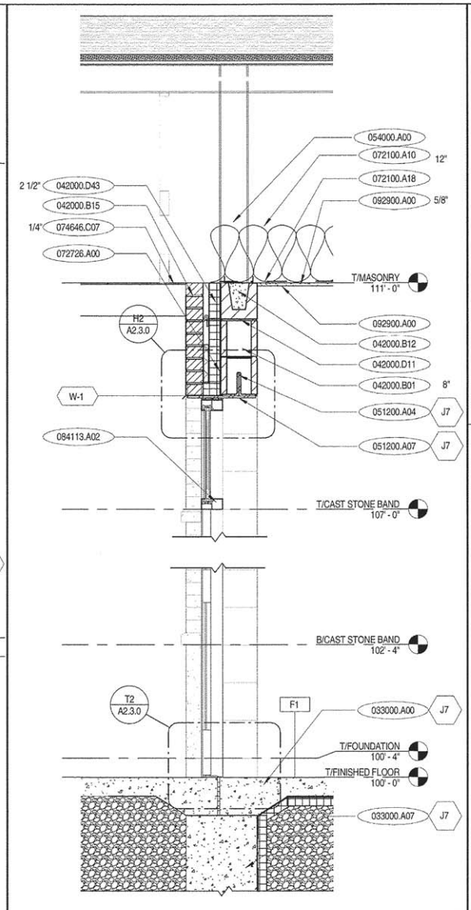
FILE NAME = N:\MAYWOOD\13012B\Maywood-UPW\A105.DGN



3 **WALL SECTION**
3/4" = 1'-0"



4 **WALL SECTION**
3/4" = 1'-0"



5 **WALL SECTION**
3/4" = 1'-0"

GENERAL WALL SECTION NOTES

1 ALL MASONRY WALLS TO BE REINFORCED. JOINT REINFORCING @ EACH SECOND COURSE AND 1 COURSE ABOVE AND BELOW ALL OPENINGS.
2 REFER TO WALL TYPES FOR MASONRY CMU REINFORCING AT EXTERIOR WALLS. ALSO REFER TO STRUCTURAL FOR DOWELS TO FLOOR SLABS.
3 ALL EXPOSED CMU CORNERS SHALL BE BULLNOSED.
4 ELECTRICAL POWER, DATA, TELEPHONE, CONTROLS AND OTHER OUTLETS INDICATED TO BE INSTALLED ON EXPOSED CMU WALLS SHALL BE PLACED INTO THE WALLS WITH CONCEALED CONDUIT STUBBED OUT ABOVE CEILING OR WHERE INDICATED.

W-1 WALL CONSTRUCTION

- [EXTERIOR AIR FILM] (R-0.17)
- 3-5/8" CAST STONE, FACE BRICK OR LIMESTONE (R-0.44)
- 1-1/4" AIR SPACE (R-1)
- 2-1/2" FOIL-FACED POLYISOCYANURATE INSULATION (R-15)
- IMPERMEABLE VAPOR RETARDER (R-0)
- 7-5/8" CONCRETE MASONRY UNITS

R-1 ROOF CONSTRUCTION

- [EXTERIOR AIR FILM] (R-0.17)
- ASPHALT SHINGLES (R-0.44)
- SELF-ADHERING SHEET UNDERLAYMENT (R-0)
- 3/4" PLYWOOD (R-0.94)
- 1" METAL DECKING (R-0)
- METAL TRUSSES (R-0)
- 12" BATT INSULATION @ BOTTOM CHORD OF METAL TRUSSES (R-48)
- IMPERMEABLE VAPOR BARRIER (R-0)
- 5/8" GYPSUM BOARD (R-0.56)
- [INTERIOR AIR FILM] (R-0.68)

F-1 FLOOR CONSTRUCTION

- 4" CONCRETE SLAB (R-0.32)
- IMPERMEABLE VAPOR BARRIER (R-0)
- 3" RIGID INSULATION @ PERIMETER IN 4'-0" WIDTHS

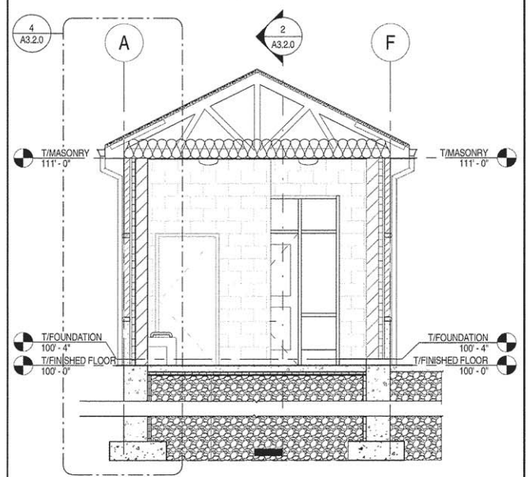
KEYNOTES - REFERENCE

KEY NUMBER	DESCRIPTION
033000.A00	CAST-IN-PLACE CONCRETE
033000.A06	CONCRETE FOOTING
033000.A07	CONCRETE FOUNDATION WALL
033000.A08	CONCRETE SLABS-ON-GRADE
033000.C07	VAPOR RETARDER
033000.C08	PREMOLDED COMPRESSIBLE FILLER STRIP
042000.B01	CONCRETE MASONRY UNIT
042000.B12	BOND BEAM CMU
042000.B15	FACE BRICK
042000.D11	ADJUSTABLE MASONRY-VENEER ANCHOR
042000.D16	FLEXIBLE FLASHING
042000.D27	CELLULAR PLASTIC WEEP/VENT
042000.D32	CAVITY DRAINAGE MATERIAL
042000.D43	CAVITY-WALL INSULATION
042000.D48	STAINLESS STEEL DRIP EDGE
044200.A02	LIMESTONE CLADDING
047200.A01	CAST STONE TRIM
047200.A03	CAST STONE WINDOW SILL
051200.A04	ANGLE
051200.A07	PLATE
053100.A02	ROOF DECK
054000.A00	COLD-FORMED METAL FRAMING
054000.A10	ROOF TRUSS
061600.B03	PLYWOOD
072100.A08	UNFACED, MINERAL-WOOL BOARD INSULATION
072100.A10	UNFACED, MINERAL-WOOL BLANKET INSULATION
072100.A18	VAPOR RETARDER
072100.A25	RIGID INSULATION
072100.C03	EAVE VENTILATION THROUGH
072726.A00	FLUID-APPLIED MEMBRANE AIR BARRIERS
073113.A00	ASPHALT SHINGLES
073113.B03	SELF-ADHERING SHEET UNDERLAYMENT
074646.A02	FIBER-CEMENT SOFFIT PANEL
074646.C07	SOFFIT VENT
077100.A06	GUTTER
084113.A02	STOREFRONT FRAMING
092900.A00	GYPSUM BOARD

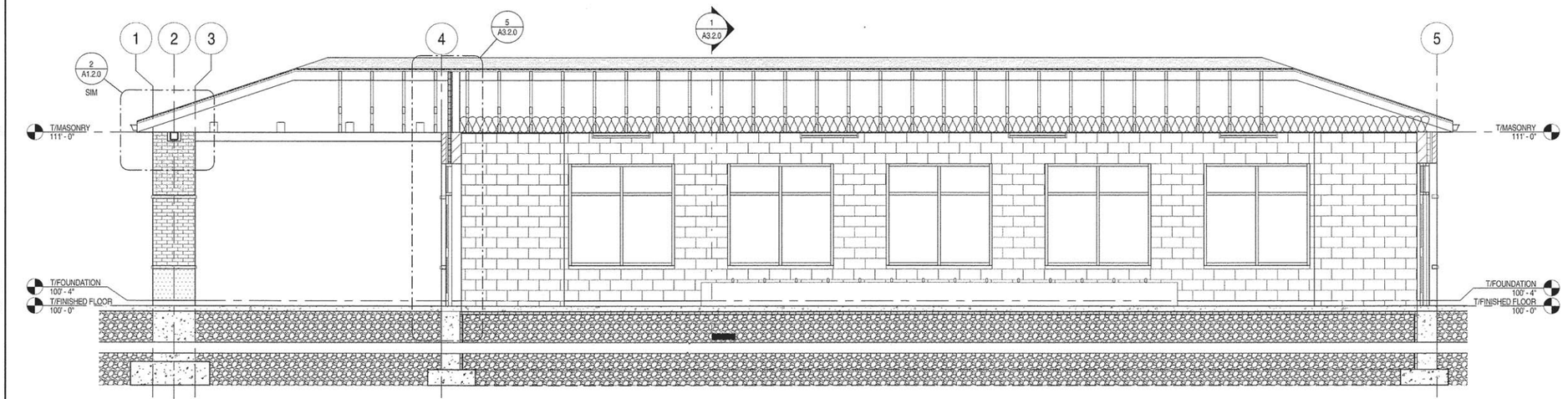
KEYNOTES - SHEET

KEY NUMBER	DESCRIPTION
J5	SEE CIVIL SERIES
J7	SEE STRUCTURAL SERIES
J58	CAST STONE "SHAPE A"
J59	CAST STONE "SHAPE B"
J60	CAST STONE "SHAPE C"
J63	CONTINUOUS SLIP SHEET BETWEEN CAST STONE AND FACE BRICK, TYP.
J64	CONTINUOUS SLIP SHEET BETWEEN CAST STONE AND LIMESTONE, TYP.

CONSTRUCTION TYPES LEGEND
12" = 1'-0"



1 **BUILDING SECTION**
1/4" = 1'-0"



2 **BUILDING SECTION**
1/4" = 1'-0"

FGM ARCHITECTS

A3.2.0

VILLAGE OF MAYWOOD
40 MADISON STREET
MAYWOOD, IL 60153

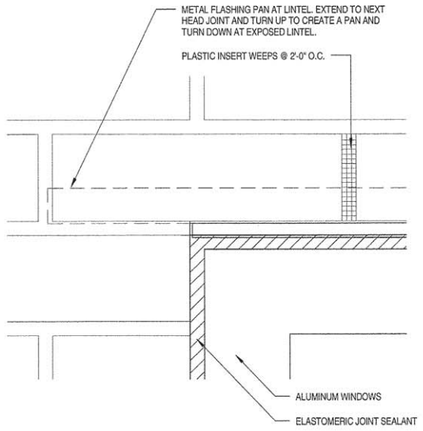
USER NAME = mmichalowicz	DESIGNED - MBT	REVISED -
	DRAWN - MBT	REVISED -
PLOT SCALE = 1'	CHECKED - MEK	REVISED -
PLOT DATE = 1/22/2016	DATE - 01/25/16	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

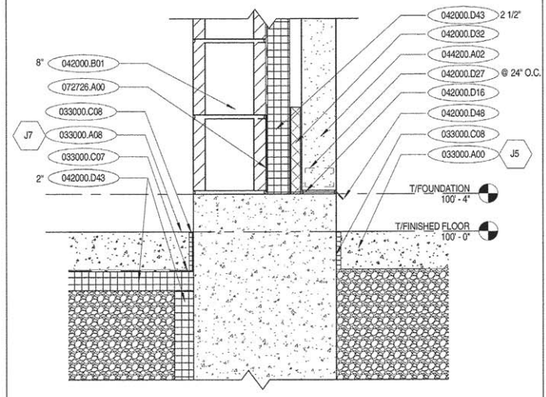
MAYWOOD METRA STATION
BUILDING AND WALL SECTIONS
SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-00136-00-RR	COOK	65	38
		CONTRACT NO. 61C74		
		ILLINOIS FED. AID PROJECT		

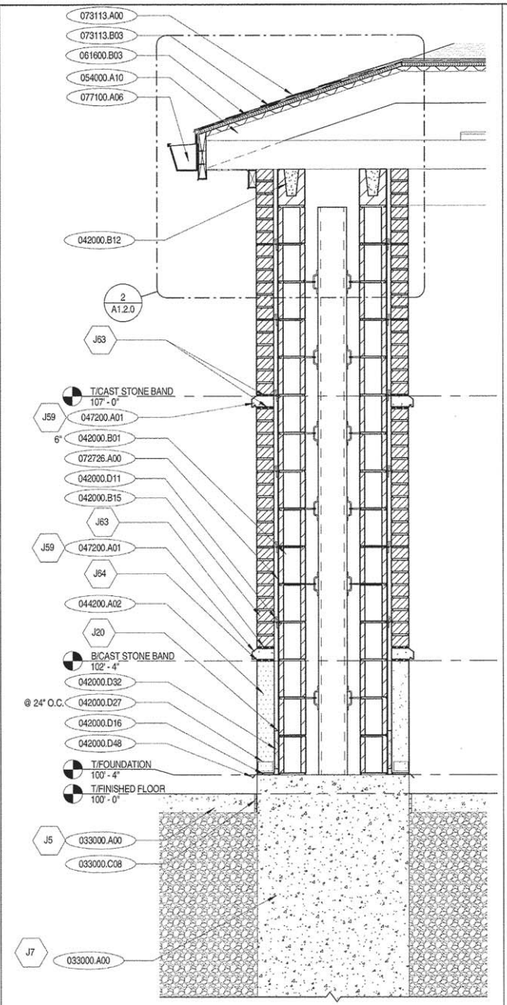
FILE NAME = N:\MAYWOOD\130128\Maywood-UPW\A106.DGN



6 FLASHING PAN @ HEAD
6" = 1'-0"



7 WALL DETAIL
1 1/2" = 1'-0"

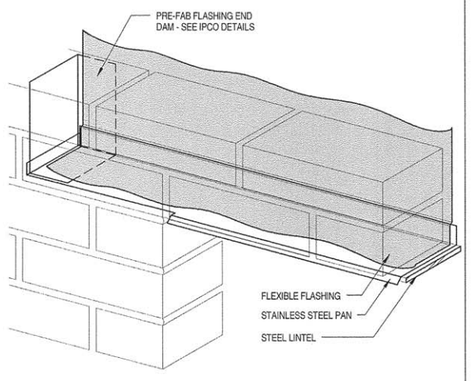


4 TYPICAL COLUMN SECTION
3/4" = 1'-0"

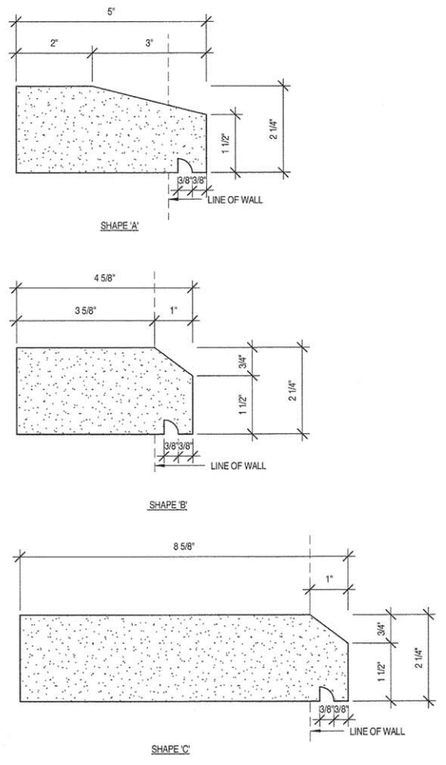
KEYNOTES - REFERENCE	
KEY NUMBER	DESCRIPTION
033000.A00	CAST-IN-PLACE CONCRETE
033000.A08	CONCRETE SLABS-ON-GRADE
033000.C07	VAPOR RETARDER
033000.C08	PREMOLDED COMPRESSIBLE FILLER STRIP
042000.B01	CONCRETE MASONRY UNIT
042000.B12	BOND BEAM CMU
042000.B15	FACE BRICK
042000.D11	ADJUSTABLE MASONRY-VENEER ANCHOR
042000.D16	FLEXIBLE FLASHING
042000.D27	CELLULAR PLASTIC WEEP/VENT
042000.D32	CAVITY DRAINAGE MATERIAL
042000.D43	CAVITY-WALL INSULATION
042000.D48	STAINLESS STEEL DRIP EDGE
044200.A02	LIMESTONE CLADDING
047200.A01	CAST STONE TRIM
051200.A01	STRUCTURAL STEEL
051200.A07	PLATE
054000.A10	ROOF TRUSS
061600.B03	PLYWOOD
072726.A00	FLUID-APPLIED MEMBRANE AIR BARRIERS
073113.A00	ASPHALT SHINGLES
073113.B03	SELF-ADHERING SHEET UNDERLAYMENT
076200.A13	BASE FLASHING
077100.A06	GUTTER

KEYNOTES - SHEET	
KEY NUMBER	DESCRIPTION
J5	SEE CIVIL SERIES
J7	SEE STRUCTURAL SERIES
J20	LAP WEATHER BARRIER 4" MIN OVER FLASHING (TYP.).
J59	CAST STONE "SHAPE B"
J63	CONTINUOUS SLIP SHEET BETWEEN CAST STONE AND FACE BRICK, TYP.
J64	CONTINUOUS SLIP SHEET BETWEEN CAST STONE AND LIMESTONE, TYP.

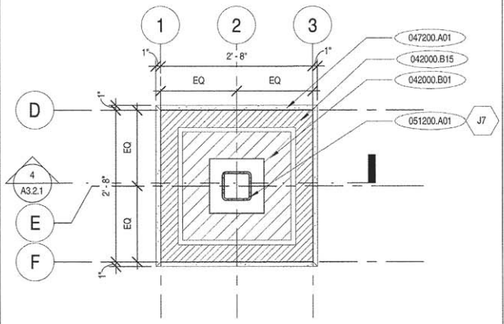
5 FLASHING PAN @ HEAD
6" = 1'-0"



1 FLASHING PAN @ HEAD
6" = 1'-0"



2 CAST STONE SHAPES
6" = 1'-0"



3 TYP. COLUMN PLAN
3/4" = 1'-0"

FGM ARCHITECTS

A3.2.1

VILLAGE OF MAYWOOD
40 MADISON STREET
MAYWOOD, IL 60153

USER NAME = mmichalowicz	DESIGNED - MBT	REVISED -	
	DRAWN - MBT	REVISED -	
PLOT SCALE = 1'	CHECKED - MEK	REVISED -	
PLOT DATE = 1/22/2016	DATE - 01/25/16	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAYWOOD METRA STATION

EXTERIOR WALL DETAILS

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

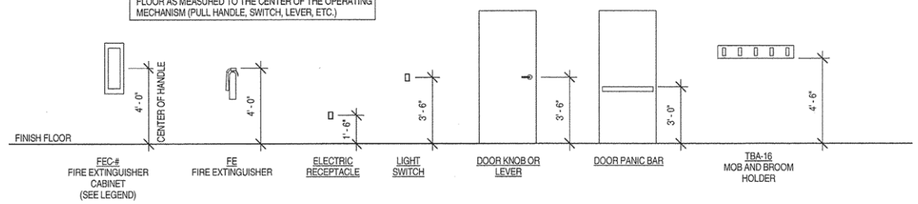
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-00136-00-RR	COOK	65	39
		CONTRACT NO. 61C74		
	ILLINOIS	FED. AID PROJECT		

FILE NAME = N:\MAYWOOD\13012B\Maywood-UPW\A107.DGN

ROOM SCHEDULE

ROOM NAME	FLOOR MATERIAL	FLOOR FINISH	BASE MATERIAL	BASE FINISH	NORTH WALL MATERIAL	NORTH WALL FINISH	EAST WALL MATERIAL	EAST WALL FINISH	WEST WALL MATERIAL	WEST WALL FINISH	SOUTH WALL MATERIAL	SOUTH WALL FINISH	CEILING MATERIAL	CEILING FINISH	REMARKS
Level 1															
100 WARMING SHELTER	CONC.	ERF-1	N/A	N/A	CMU	EP	CMU	EP	CMU	EP	CMU	EP	GB	PT	
101 JANITOR	CONC.	ERF-1	N/A	N/A	CMU	EP	CMU	EP	CMU	EP	CMU	EP	GB	PT	
102 MECHANICAL	CONC.	ERF-1	N/A	N/A	CMU	EP	CMU	EP	CMU	EP	CMU	EP	GB	PT	

NOTE: TYPICAL MOUNTING HEIGHT OF ALL PUBLIC ACCESSIBLE EQUIPMENT SHALL BE 48" MAX ABOVE FINISH FLOOR AS MEASURED TO THE CENTER OF THE OPERATING MECHANISM (PULL HANDLE, SWITCH, LEVER, ETC.)



KEYNOTES - REFERENCE

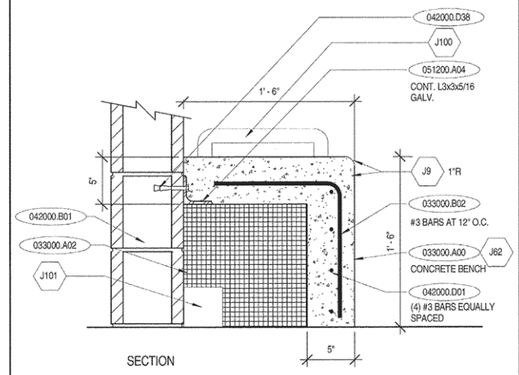
KEY NUMBER	DESCRIPTION
033000.A00	CAST-IN-PLACE CONCRETE
033000.A02	VOID FORM
033000.B02	REINFORCING BAR
042000.B01	CONCRETE MASONRY UNIT
042000.B12	BOND BEAM CMU
042000.D01	REINFORCEMENT
042000.D38	ANCHOR BOLT
051200.A04	ANGLE
078446.A00	FIRE RESTISTIVE JOINT SYSTEM
104413.A05	FIRE EXTINGUISHER CABINET SEMI-RECESSED

KEYNOTES - SHEET

KEY NUMBER	DESCRIPTION
J9	PROVIDE BULLNOSE CORNER AS SHOWN
J62	SEAL CONCRETE
J100	STAINLESS STEEL BENCH DIVIDER
J101	PROVIDE CHASE FOR WATER PIPING. COORDINATE SIZE AND LOCATION WITH PLUMBING DRAWINGS.
P9	4"x4"x3/16" PRIMED STEEL ANGLE 8" LONG STAGGERED EA. SIDE OF CMU @ 4'-0" O.C. EXPANSION BOLT TO DECK WITH 1/4" DIA. EXPANSION BOLTS (2 PER PIECE)

MOUNTING HEIGHTS

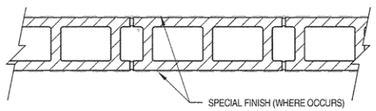
1/4" = 1'-0"



SECTION

4 CONCRETE BENCH DETAIL

1 1/2" = 1'-0"



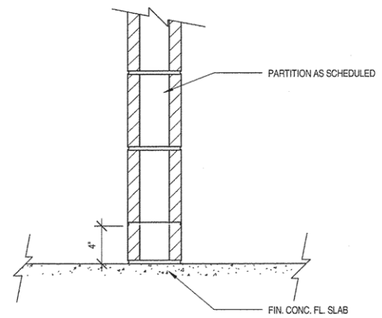
CMU NOMINAL THICKNESS:	6"
CMU FINISH:	SEE BELOW FOR CMU FINISH TYPES
WALL REINFORCING:	SEE STRUCTURAL
HOR. JOINT REINFORCING:	@ 16" O.C.
CELL GROUTING:	SEE STRUCTURAL
INSULATION:	NONE
FIRE RATING:	SEE CODE COMPLIANCE PLANS ("G1" SERIES)
FIRE TEST NO:	SEE CODE COMPLIANCE PLANS ("G1" SERIES) (WHERE RATED)
STC RATING:	SEE ACOUSTICAL COMPLIANCE PLANS ("G2" SERIES) (WHERE RATED)
DETAIL @ HEAD:	PH-1A
DETAIL @ BASE:	PB-1A

MASONRY PARTITION TYPES:

P2 STANDARD CMU FINISH BOTH SIDES

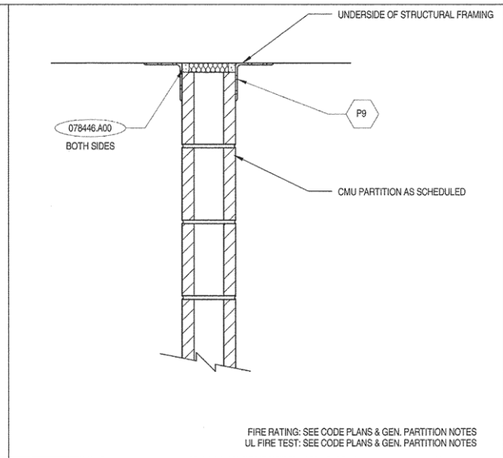
3 PARTITION TYPE

1 1/2" = 1'-0"



PB-1A PARTITION BASE

1 1/2" = 1'-0"



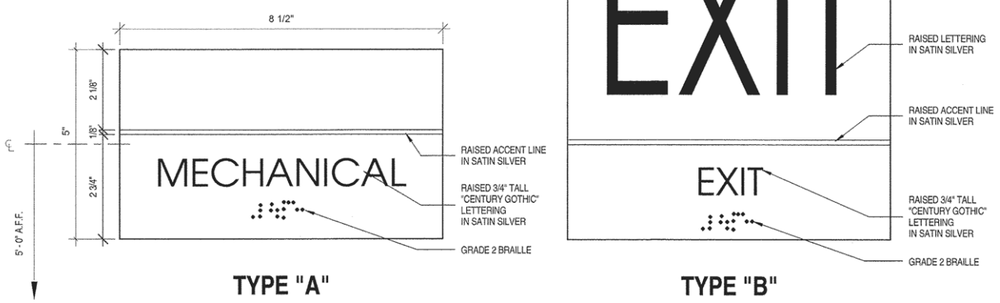
FIRE RATING: SEE CODE PLANS & GEN. PARTITION NOTES
UL FIRE TEST: SEE CODE PLANS & GEN. PARTITION NOTES

PH-1A CMU PART. HEAD DETAIL

1 1/2" = 1'-0"

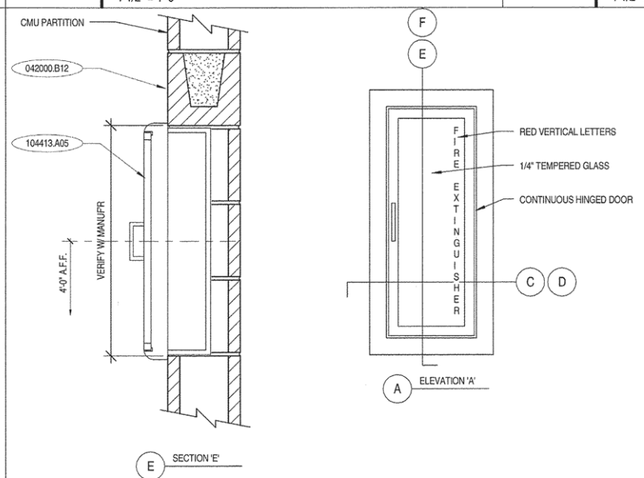
ROOM FINISH ABBREVIATIONS

AP-#	ACCESS PANEL
BR-#	BRICK
CMU-#	CONCRETE MASORY UNIT
CONC-#	EXPOSED CONCRETE
CT-#	CERAMIC TILE
EP-#	EPOXY PAINT
ERF-#	EPOXY RESINOUS FLOORING
FRP-#	FIBERGLASS REINFORCED PANEL
GB-#	GYPSUM BOARD
GFRG-#	GLASS FIBER REINFORCED GYPSUM
GL-#	GLASS
PT-#	PAINT
QT-#	QUARRY TILE
SC-#	SEALED CONCRETE
SSC-#	SEALED STAINED CONCRETE



1 INTERIOR PANEL SIGNAGE

6" = 1'-0"



2 FIRE EXTINGUISHER CABINET SEMI-RECESSED

1 1/2" = 1'-0"

GENERAL ROOM FINISH NOTES

1. SEE PARTITION TYPES FOR ADDITIONAL FINISH INFORMATION
2. PAINT ALL INTERIOR AND EXTERIOR HOLLOW METAL DOORS, WINDOWS AND FRAMES.
3. EXTEND SCHEDULED PAINT ON WALLS UP TO 1'-0" ABOVE THE FINISHED CEILING. IN ROOMS NOT SCHEDULED TO RECEIVE A CEILING, EXTEND SCHEDULED PAINT UP THE ENTIRE HEIGHT OF THE PARTITION, UNLESS NOTED OTHERWISE
4. AT ALL EXPOSED AREAS, PAINT ALL WALLS, STRUCTURE, INCLUDING CONCRETE, METAL DECK, STEEL BEAMS, COLUMNS, PIPING, CONDUIT, DUCTWORK AND OTHER EQUIPMENT ETC.
5. PROVIDE TRANSITION STRIP AT ALL LOCATIONS WHERE FLOORING MATERIAL CHANGES
6. DO NOT PAINT DOOR AND FRAME FIRE RATING LABELS.

FGM ARCHITECTS

A5.4.0

VILLAGE OF MAYWOOD
40 MADISON STREET
MAYWOOD, IL 60153

USER NAME = mmichalowicz	DESIGNED - MBT	REVISED -	
	DRAWN - MBT	REVISED -	
PLOT SCALE = 1'	CHECKED - MEK	REVISED -	
PLOT DATE = 1/22/2016	DATE - 01/25/16	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAYWOOD METRA STATION

INTERIOR DETAILS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-00136-00-RR	COOK	65	40
		CONTRACT NO. 61C74		
		ILLINOIS FED. AID PROJECT		

FILE NAME = N:\MAYWOOD\130128\Maywood-UPW\A108.DGN

LIGHTING & ELECTRICAL GENERAL NOTES

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE FOLLOWING SPECIFICATIONS, WHICH ARE HEREBY MADE A PART HEREOF:

   A. "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION IN ILLINOIS", AS PREPARED BY IDOT.
   B. "THE NATIONAL ELECTRICAL CODE."
   C. MUNICIPAL CODE & ORDINANCE.

   ANY MODIFICATIONS AND/OR ADDITIONS TO THESE PLANS REQUIRED FOR PROPER COMPLIANCE TO ANY APPLICABLE CODES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE INCLUDED IN HIS BID PRICES.

2. THE CONTRACTOR SHALL PROVIDE LABOR, EQUIPMENT AND MATERIALS NECESSARY TO COMPLETE THE ELECTRICAL SYSTEMS AS DESCRIBED IN THE DIVISION OF WORK AND IN THE SPECIFICATIONS.

3. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL SECONDARY SERVICE CONDUCTORS IN CONDUITS FROM COM ED SERVICE DROP LOCATION TO METRA ELECTRIC AND PARKING LOT CONTROLLER CABINETS.

4. MATERIALS AND EQUIPMENT SHALL BE LISTED AND/OR LABELED BY U.L., ETL, CSA OR ANOTHER RECOGNIZED TESTING LAB.

5. ALL MATERIALS, AND EQUIPMENT SHALL BE ERECTED, INSTALLED, TOOLED, CONNECTED, CLEANED, ADJUSTED, TESTED, CONDITIONED, AND PLACED IN SERVICE IN ACCORDANCE WITH THE MANUFACTURER'S DIRECTIONS AND RECOMMENDATIONS.

6. ALL CUTTING, DRILLING AND PATCHING OF MASONRY MUST BE DONE BY THE CONTRACTOR IN ORDER THAT HIS WORK MAY BE PROPERLY INSTALLED, BUT UNDER NO CONDITIONS SHALL ANY STRUCTURAL WORK BE CUT, EXCEPT AT THE DIRECTION OF THE ARCHITECT/ENGINEER OR HIS REPRESENTATIVE.

7. VERIFY CLEARANCES FOR ALL ELECTRICAL WORK BEFORE PROCEEDING WITH CONSTRUCTION. COORDINATE USAGE OF AVAILABLE SPACE WITH ALL TRADES. IN THE EVENT OF CONFLICTS, NOTIFY THE OWNER'S REPRESENTATIVE BEFORE PROCEEDING WITH THE WORK.

8. THE ELECTRICAL CONTRACTOR SHALL SECURE AND PAY FOR ALL LICENSES REQUIRED BY THE GOVERNING BODIES TO OPERATE AS AN ELECTRICAL CONTRACTOR FOR THIS PROJECT. ELECTRICAL PERMIT FEE SHALL BE PAID BY THE ELECTRICAL CONTRACTOR.

9. PLACE A GROUND ROD ¾" IN DIAMETER BY 10 FEET IN LENGTH APPROXIMATELY 2 FEET FROM EVERY POLE AND CONNECT TO THE GROUNDING LUG VIA A #6 BARE COPPER WIRE WITH AN EXOTHERMIC WELD AT THE GROUND ROD.

10. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR JOB SITE SAFETY AS WELL WAS SUPERVISION/DIRECTION AND MEANS/METHODS OF CONSTRUCTION.

LIGHTING & ELECTRICAL INSTALLATION NOTES

1. ALL CABLE SHALL BE OF THE AWG SIZE AS INDICATED.
2. NO UNDERGROUND SPLICING OF CABLE SHALL BE ALLOWED.
3. ALL SPLICING SHALL BE MADE IN THE BASE OF LIGHT POLE OR IN ABOVE GRADE JUNCTION BOXES IN PROPOSED WARMING HOUSE AND EXISTING BUILDING TO REMAIN.
4. ALL LIGHTING POLES SHALL BE LOCATED AS SHOWN ON THE PLANS.
5. ALL THE LUMINARIES SHALL BE MOUNTED AT A ZERO TILT.
6. ALL LUMINAIRES SHALL BE IES DISTRIBUTION PATTERN TYPE III.
7. ALL CONDUITS IN THE TRENCH SHALL BE OF GALVANIZED STEEL OR AS SPECIFIED ON LIGHTING PLAN.
8. ALL JUNCTION BOXES, LIGHT FIXTURES, & ELECTRIC BOXES INSTALLED IN WARMING HOUSES OR DEPOT BUILDINGS SHALL BE SECURED WITH TAMPERPROOF COVERS AND SCREWS.
9. ALL ELECTRICAL CONDUITS SHALL BE CONCEALED.

GROUNDING NOTES

1. FURNISH AND INSTALL A GROUND FIELD AS SHOWN ON THE LIGHTING DETAILS. GROUNDING CONDUCTOR SHALL BE INSTALLED 1-FT. MINIMUM BELOW GROUND.
2. GROUND ALL EXPOSED METAL WORK SUCH AS HATCHES, METAL CABINETS AND EQUIPMENT FRAMES, ETC. CONNECTIONS TO HATCHES, AND OTHER METAL WORK SHALL BE FUSION WELDED. CONNECTIONS TO THE GALVANIZED EQUIPMENT AND TO EQUIPMENT WHICH MAY BE REMOVED FOR MAINTENANCE SHALL BE MADE WITH BOLTED CLAMP TYPE CONNECTIONS OF SOLID COPPER, WELDED TO THE GROUNDING CONNECTOR.
3. CONCRETE SLAB REINFORCEMENT SHALL BE GROUNDED CONNECTIONS. REINFORCEMENT CONNECTIONS SHALL BE FUSION WELDED.
4. UNLESS OTHERWISE INDICATED, THE MINIMUM SIZE OF SYSTEM GROUNDING CONDUCTOR SHALL BE NO. 8 AWG.
5. EACH CONDUIT RUN SHALL BE GROUNDED TO THE COMMON GROUNDING BUS IN THE PANEL WHERE IT ORIGINATES. THE MINIMUM SIZE OF GROUNDING CONDUCTOR SHALL BE PER NEC SECTION 250.122 OR AS OTHERWISE SHOWN ON THE DRAWINGS.
6. GROUNDING RODS SHALL BE COPPERWELD, MINIMUM ¾-IN. DIAMETER X 10-FT. LONG. CABLE-TO-CABLE AND CABLE-TO-GROUND ROD CONNECTIONS SHALL BE MADE BY THE FUSION WELDING PROCESS.

LIGHTING & ELECTRICAL SCHEDULE OF WORK FOR PROPOSED IMPROVEMENTS

PAYMENT FOR LIGHTING AND ELECTRICAL ITEMS SHALL BE ON A LUMP SUM BASIS, AND SHALL CONSIST OF, BUT NOT LIMITED TO THE BELOW MAJOR COMPONENTS. THE SCHEDULE OF WORK IS INTENDED TO LIST MAJOR COMPONENTS AND NOT INTENDED TO LIST ALL ITEMS, EQUIPMENT, AND MATERIALS. ITEMS NOT LISTED SHALL BE CONSIDERED INCLUDED IN THE COST OF THE PROPOSED IMPROVEMENTS.

SPECIFICATION NO.	DESCRIPTION	UNIT	QUANTITY
	SITE ELECTRICAL WORK		
	SEE OVERALL PLAN SUMMARY OF QUANTITIES		
	BUILDING ELECTRICAL WORK		
3303	VIS SIGN	EACH	1
3303	VIS SIGN FOUNDATION	FOOT	11
8111	DOOR ACCESS CONTROL SYSTEM DEPOT AND WARMING SHELTER	LSUM	1
16100	ELECTRIC SERVICE AND DISTRIBUTION	LSUM	1
16136	VOICE OF METRA CABINET INSTRUMENT CABINET	EACH	1
16450	3/4" x 10' GROUND RODS	EACH	4
16510	INTERIOR & EXTERIOR WARMING SHELTER LIGHTING & ELECTRIC	LSUM	1
16532	CABLES IN CONDUIT	FOOT	1500
16534	METRA ELECTRIC CABINET AND PAD	EACH	1
16535	REDISTRIBUTION OF EXISTING SITE PLATFORM LIGHTING CONTROLLER	LSUM	1
16536	ELECTRICAL CONNECTIONS FOR SITE EQUIPMENT & WARMING SHELTER	LSUM	1
16537	MAINTENANCE OF EXISTING LIGHTING SYSTEMS	LSUM	1
16538	REMOVAL OF EXISTING LIGHTING CONTROLLER, SALVAGE	EACH	1
16538	REMOVAL OF EXISTING METRA ELECTRIC CABINET AND FOUNDATION	EACH	1
16538	REMOVAL OF EXISTING VOM CABINET & FOUNDATION	EACH	1
16538	REMOVAL OF ELECTRIC SERVICE INSTALLATION	EACH	2
16538	REMOVAL OF LIGHTING CONTROLLER FOUNDATION	EACH	1
16539	VOICE OF METRA SPEAKERS	EACH	6
16720	AUTO DIALER	EACH	1
16470	TELEPHONE SERVICE	LSUM	1
	BUILDING PLUMBING WORK		
15065	COPPER WATER SERVICE AND ACCESSORIES	LSUM	1
15410	PROPOSED WARMING SHELTER PLUMBING	LSUM	1
15450	PLUMBING FIXTURES AND ACCESSORIES	LSUM	1
	BUILDING MECHANICAL WORK		
15820	HEATED FLOOR SYSTEM	LSUM	1
15820	NATURAL GAS SERVICE AND PIPING	LSUM	1
15820	NATURAL GAS FIRED UNIT HEATERS	EACH	2
15820	EXHAUST FANS AND VENT WORK	EACH	3
15820	FORCED AIR FURNACE AND RELATED DUCT WORK	LSUM	1

* PLUMBING ITEMS (SEE PLUMBING DETAIL SHEETS)

VILLAGE OF MAYWOOD
40 MADISON STREET
MAYWOOD, IL 60153

USER NAME = mmichalowicz	DESIGNED - GAH	REVISED -	
	DRAWN - DRK	REVISED -	
PLOT SCALE = 30'	CHECKED - JPC	REVISED -	
PLOT DATE = 1/22/2016	DATE - 01/25/16	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAYWOOD METRA STATION
LIGHTING/ELECTRICAL NOTES
AND SCHEDULE OF WORK

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-00136-00-RR	COOK	65	41
		CONTRACT NO. 61C74		
	ILLINOIS FED. AID PROJECT			

FILE NAME = N:\MAYWOOD\130128\Maywood-UPW\1234E001.DGN

ELECTRICAL & LIGHTING SYMBOLS

- GFCI DUPLEX RECEPTACLE 20A, 125V, 2P, 3W, GRD, NEMA 5-20R, WITH HINGED COVER
- GFCI DUPLEX RECEPTACLE 20A, 125V, 2P, 3W, GRD, MOUNTED ABOVE COUNTER
- GFCI DUPLEX RECEPTACLE 20A, 125V, 2P, 3W, GRD, WITH WEATHERPROOF COVER
- S-1 / HP — MOTOR OUTLET. S-1/5 HP. REFERS TO MECHANICAL TAG AND HORSE-POWER RATING
- LIGHTING OR POWER AND/OR COMBINATION PANELBOARD
- (M) — UTILITY ELECTRIC METER MTD. REMOTELY FROM ELECTRICAL CABINET
- SWITCH AND FUSE
- CIRCUIT BREAKER
- SERVICE ENTRANCE GROUNDING POINTS PER CODE REQUIREMENTS
- T — THERMOSTAT
- TC — TIME CLOCK
- P — PHOTOCONTROL CELL
- GROUND CONNECTION OR GROUND ROD AS INDICATED ON DRAWINGS
- (S) — RECESSED VOICE OF METRA SPEAKER (ALTEC LANSING CAT # CF404-8T & ACCESSORIES)
- TLC — TELEPHONE TERMINAL CABINET
- JB — JUNCTION BOX
- HD — HEAT DETECTOR
- FIRE ALARM PULL STATION
- OCCUPANCY SENSOR
- $ — LIGHT SWITCH
- ELECTROMAGNETIC DOOR LOCK
- RECESSED CAN LIGHT FIXTURE
- EXHAUST FAN FIXTURE
- EXIT LIGHT
- EMERGENCY LIGHT
- FLEXIBLE CONDUIT
- CONDUIT CONCEALED IN CEILING OR WALL. CROSS LINES REPRESENT THE NUMBER OF WIRES
- EXPOSED CONDUIT RUN
- CONCEALED CONDUIT
- T — CONDUIT SYSTEM FOR TELEPHONE, OTHER SYSTEMS, PA, CCTV, TV, ETC.
- CONDUIT STUB UP
- CONDUIT STUB DOWN
- CONDUIT CAPPED
- E — WIRE AND CONDUIT AS SHOWN ON CABLE AND CONDUIT SCHEDULE ON ELECTRICAL PLANS
- PARKING LIGHT STANDARD 25' SPUN ALUMINUM POLE WITH 6' MAST ARM AND 180W LED GE ERS2 LUMINAIRE WITH INTEGRAL PHOTO CELL MOUNTED ON A 2'-6" ABOVE GRADE CONCRETE FOUNDATION
- PLATFORM LIGHT STANDARD 25' SQUARE STEEL POLE WITH SPLITFITTER MOUNT AND 78W LED RAB ALED3T78 LUMINAIRE WITH TYPE II OPICS MOUNTED ON A 2'-6" ABOVE GRADE CONCRETE FOUNDATION
- PROPOSED CONTROLLER CABINET
- DOOR SWING
- PROPOSED COMPOSITE CONCRETE HANDHOLE
- POLE NUMBER
- P1-CKT B — CIRCUIT IDENTIFIER
- STA. 10+51 / 12' FOP — POLE STATION LOCATION
- POLE SETBACK FROM FACE OF PLATFORM

LIGHTING/ELECTRICAL FIXTURE SCHEDULE

SYMBOL	MANUFACTURER & CATALOG NUMBER	NO. OF LAMPS	VOLT	LUMINAIRE MOUNTING HEIGHT	LUMINAIRE LOCATION	REMARKS
	LUMINAIRE: GE MODEL NO. ERS2-0-L2-A1-5-40-A-GRAY-DCR LIGHT POLE: VALMONT MODEL NO. RTSA-25	(1) 180W LED	120V	27-6" ABOVE GRADE	PARKING	LIGHT POLE. PROVIDE CONCRETE LIGHT POLE FOUNDATION - SEE LIGHTING DETAILS.
	LUMINAIRE: RAB MODEL NO. 2T-78-1-N-B-240-N-N LIGHT POLE: RAB MODEL NO. PS4-07-25WT	(1) 78W LED	240V	27-6" ABOVE GRADE	PLATFORM	LIGHT POLE. PROVIDE CONCRETE LIGHT POLE FOUNDATION - SEE LIGHTING DETAILS.
	KENALL CO. MODEL NO.: MILLENIUM HADL13L40K-DU-9	(1) 13W LED	120V	RECESSED IN CEILING	WARMING SHELTER (EXTERIOR)	WET/DRY LOCATION RATED, GASKETED RECESSED ROUND LENS W/ VANDAL RESISTANT HOUSING
	KENALL CO. MODEL NO.: MILLENIUM MHLAB48FLGPP90L40KDCL	(1) 100W LED	120V	MOUNTED TO CEILING	WARMING SHELTER (INTERIOR)	WET/DRY LOCATION RATED, GASKETED RECESSED ROUND LENS W/ VANDAL RESISTANT HOUSING
	KENALL- MILLENIUM MODEL NO.: METEL40NMW4652DT	(2) 6.2W	120V	WALL MOUNTED	WARMING SHELTER	INCANDESCENT EMERGENCY LIGHT
	COOPER/SURE-LITE LIGHTING MODEL NO.: LPX-70-RWHDH-SD	(2) 5.4W	120V	WALL MOUNTED	WARMING SHELTER	INCANDESCENT EXIT SIGNS WITH DOUBLE HEAD LIGHTS
	SCHLAGE - LOCKNETICS MODEL NO.: MAG FORCE 390 SERIES MAGNETIC LOCKS	--	24V DC	UNDERSIDE OF DOOR HEADER	WARMING SHELTER	ELECTROMAGNETIC LOCKS W/ A 1200LB HOLDING FORCE RATING & EXIT PUSH-BUTTON OVERRIDE SWITCH
(S)	METRA SPEAKER ALTEC LANSING	--	120V	CEILING MOUNTED	WARMING SHELTER	VOM
P	FISHER PIERCE MODEL NO. FPFA-105M	--	120V	ROOF OVERHANG	WARMING SHELTER	PHOTOCELL MOUNTED IN SOFFIT OR WOOD FASCIA
	RAB WALL PACK MODEL NO. WPLED8/480/PC54	--	120V	SOUTH ELEVATION	WARMING SHELTER	INTEGRAL SWIVEL PHOTOCELL

* CATALOG NUMBERS INDICATED ABOVE DO NOT REFLECT ALL FIXTURE REQUIREMENTS. ALSO SEE PROJECT SPECIFICATIONS.

NOTES:

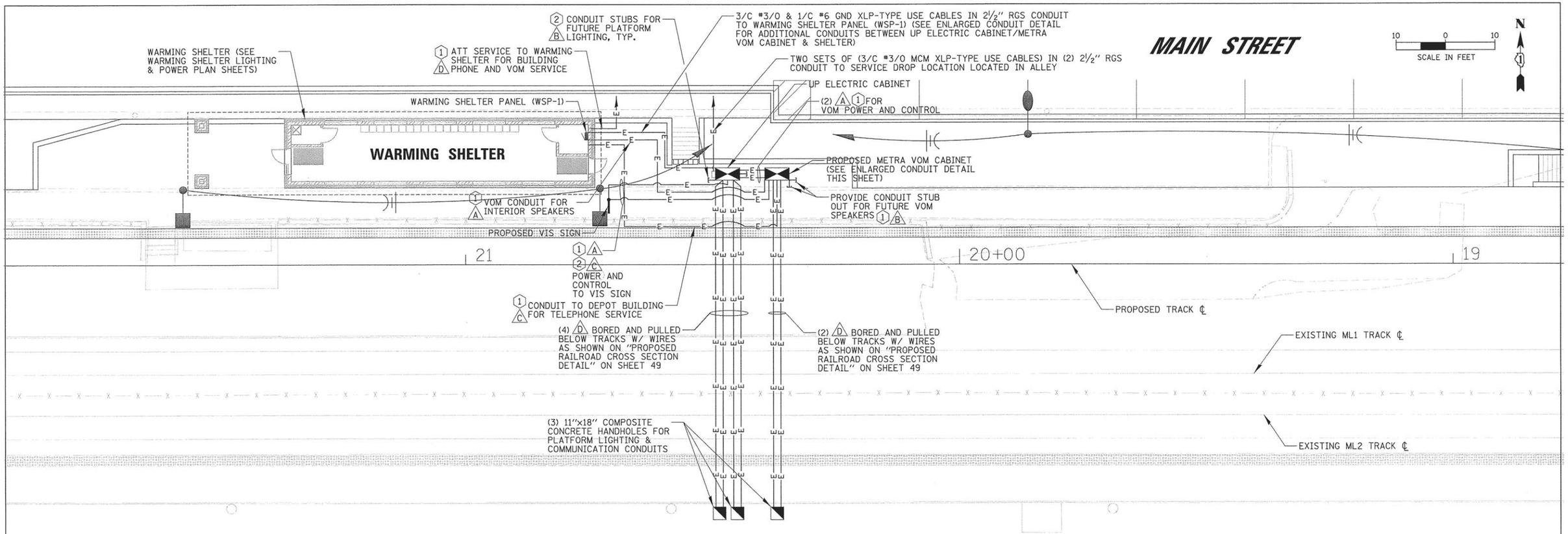
1. VERIFY TYPE OF CEILING OR WALL FOR ALL RECESSED LIGHTING FIXTURES PRIOR TO ORDERING. ARCHITECT IS TO DETERMINE THE FINISH FOR ALL FIXTURES.
2. PROVIDE ALL ADDITIONAL HARDWARE FOR FIXTURE MOUNTING AS REQUIRED AT NO EXTRA COST.
3. ALL WIRE WITHIN (3) THREE INCHES OF BALLASTS OR DRIVERS SHALL BE RATED A MINIMUM OF 90° C.
4. MINIMUM LENS THICKNESS TO BE .125 INCHES, WHERE LENSES ARE USED.
5. SEE LIGHTING FIXTURE SECTION IN SPEC'S FOR ADDITIONAL INFORMATION.
6. THE FIXTURE SCHEDULE DOES NOT NECESSARILY LIST ALL ACCESSORIES AND HARDWARE NECESSARY FOR THE COMPLETION OF INSTALLATION, NOR DOES IT DETAIL THE CEILING CONSTRUCTION TO BE ENCOUNTERED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROPERLY DETERMINE AND PROVIDE CORRECT COMPONENTS, ACCESSORIES, AND HARDWARE AS REQUIRED FOR THE INSTALLATION.
7. CONTRACTOR SHALL COORDINATE WITH ARCHITECTURAL DRAWINGS AND CEILING CONTRACTOR FOR EXACT LIGHTING FIXTURE LOCATION.
8. ALL LAMPS SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR, OR AS NOTED ON THE PLANS.
9. ANY OF THE ABOVE MANUFACTURERS AND MODEL NUMBERS, OR APPROVED EQUALS, MAY BE PROVIDED FOR THE SCHEDULED FIXTURES

FIRE PREVENTION DEVICE SCHEDULE

SYMBOL	VOLTAGE	MANUFACTURER & CATALOG CUT	MOUNTING
HD	120V	COMBINATION SMOKE/HEAT DETECTOR 900 SQ. FT COVERAGE, MIN.	SURFACE/ CEILING
	DC	FIRE ALARM PULL STATION	WALL MTD

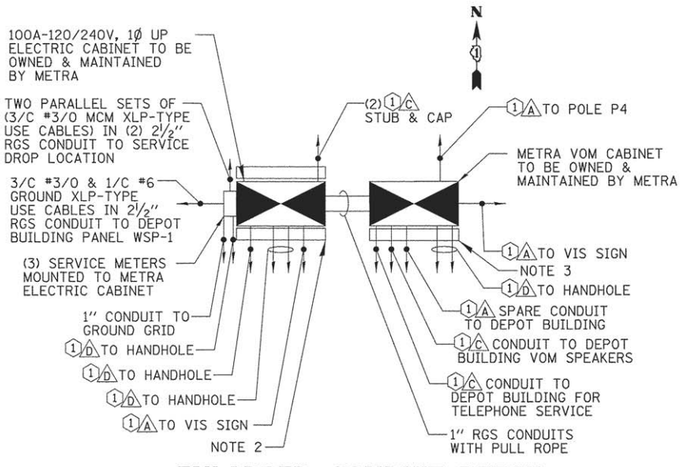
LIGHTING ABBREVIATIONS

A.	AMPERES	MAX.	MAXIMUM
AFF.	ABOVE FINISHED FLOOR	MIN.	MINIMUM
AWG	AMERICAN WIRE GAUGE	MH	MANHOLE, METAL HALIDE
AIC	AMPERES INTERRUPTING CAPACITY		OR MOUNTING HEIGHT
C.	CONDUIT	MLO	MAIN LUGS ONLY
C/B	CIRCUIT BREAKER	MTD.	MOUNTED
CCT	CIRCUIT	MTG.	MOUNTING
CLG	CEILING	NEC	NATIONAL ELECTRICAL CODE
CT	CURRENT TRANSFORMER	NO.	NUMBER
DIA.	DIAMETER	NTS	NOT TO SCALE
DISC.	DISCONNECT	P	POLE
DN.	DOWN	PA	PUBLIC ADDRESS
DWG.	DRAWING	PB	PULL BOX
EA.	EACH	PH	PHASE
EC	ELECTRICAL CONTRACTOR OR EMPTY CONDUIT	PNL	PANEL
		PWR.	POWER
ELEC.	ELECTRICAL	RGS	RIGID GALVANIZED STEEL
EWC	ELECTRIC WATER COOLER	RM	ROOM
EQUIP.	EQUIPMENT	SPDT	SINGLE POLE DOUBLE THROW
F	FUSE	SEC.	SECONDARY
FL.	FLOOR	SHT.	SHEET
FLUOR.	FLUORESCENT	SW.	SWITCH
G.	GROUND OR GROUND BUS	SWBD.	SWITCHBOARD
GRD.	GROUND	SPEC.	SPECIFICATION
GFI	GROUND FAULT INTERRUPTER	TYP.	TYPICAL
GFP	GROUND FAULT PROTECTION	U/G	UNDERGROUND
HP	HORSEPOWER	U.L.	UNDERWRITERS LABORATORY
HTR.	HEATER	V	VOLTS
HPS	HIGH PRESSURE SODIUM	W	WATT OR WIRE
INC.	INCANDESCENT	WP	WEATHERPROOF
INFO.	INFORMATION	XFORM.	TRANSFORMER
KW	KILOWATT	&	AND
KVA	KILOVOLT AMPERES	VIS	VISUAL INFORMATION SYSTEM
LTG.	LIGHTING		



PROPOSED PLATFORM ELECTRICAL PLAN

SCALE: AS SHOWN



ENLARGED CONDUIT DETAIL

N.T.S.

CABLE SCHEDULE

1. PULL ROPE
2. 4/C #8 (LIGHTING CKTS), 1/C #8, 1/C #8 NEUTRAL (RECEPTACLE CKT) & 1/C #8 GND
3. 1/C #8, 1/C #8 NEUTRAL & 1/C #8 GROUND
4. 2/C #6, 1/C #6 NEUTRAL & 1/C #6 GROUND
5. 1/C #10, 1/C #10 NEUTRAL (EXIT LITE CKT), 2/C #8 (INFRARED HEATING) & 1/C #8 GROUND
6. 2/C #14 CLASS 2 SHIELD CABLES (DOOR LOCK CKT)
7. 2/C #10, 2/C #10 NEUTRAL (LITE CKT), 1/C #10, 1/C #10 NEUTRAL (EMERGENCY LITE CKT) & 1/C #10 GND
8. 2/C #10, 1/C #10 NEUTRAL (HEAT DETECTOR CKT), 2/C #10 (EMERGENCY FIRE ALARM CKT) & 1/C #10 GND

CONDUIT SCHEDULE

- A 1" SCH 40 UNIT DUCT BORED AND PULLED
- B 1¼" SCH 40 UNIT DUCT BORED AND PULLED
- C 1½" SCH 40 UNIT DUCT BORED AND PULLED
- D 2" RGS CONDUIT BORED AND PULLED
- E 2" SCH 40 UNIT DUCT BORED AND PULLED

PLATFORM ELECTRICAL NOTES

1. ALL EMPTY CONDUITS SHALL BE PROVIDED WITH PULL ROPE FOR FUTURE USE.
2. ALL HANDHOLES SHALL BE IDOT STANDARD 814001 COMPOSITE CONCRETE HANDHOLES AND HAVE "LIGHTING" AND "COMMUNICATIONS" ENGRAVED ON COVER.
3. ALL END OF RUN LIGHT POLE FOUNDATIONS SHALL HAVE SPARE RACEWAYS.
4. THE (2) EXISTING LIGHTING CONTROLLER CABINETS & VOM CABINET LOCATED ALONG THE PLATFORM SHALL BE REMOVED AND RETURNED, AS INDICATED ON THE PLANS. THE CONTRACTOR SHALL VERIFY EXISTING CIRCUITRY AND CONDUIT RUNS PRIOR TO REMOVING ANY EXISTING PLATFORM LIGHT POLES AND LIGHTING CONTROLLERS. THE CONTRACTOR SHALL NOT REMOVE EXISTING LIGHTING CONTROLLERS UNTIL THE PROPOSED CONTROLLER CABINETS HAVE BEEN PUT INTO OPERATION AND ACCEPTED BY METRA, THE UNION PACIFIC RAILROAD (UPRR) AND THE VILLAGE.
5. CONTRACTOR SHALL TAKE FULL MAINTENANCE OF EXISTING PLATFORM LIGHTING SYSTEMS DURING CONSTRUCTION. THIS WORK SHALL INCLUDE MAINTENANCE OF LIGHTING UNITS, CABLE RUNS, AND LIGHTING CONTROLS. IN CASE OF A POLE KNOCKDOWN OR EQUIPMENT DAMAGED BY EITHER THE MOTORING PUBLIC OR CONTRACTOR OPERATIONS, THE CONTRACTOR SHALL CLEAR AND RESTORE THE EXISTING SYSTEM TO ORIGINAL CONDITION (SEE CONTRACT SPECIFICATIONS).
6. EXISTING PLATFORM LIGHT POLES, LUMINAIRES, CONCRETE FOUNDATIONS AND ASSOCIATED CONDUIT & WIRES SHALL BE REMOVED, AS INDICATED ON THE PLANS. THE LIGHT POLES AND LUMINAIRES SHALL BE REMOVED AND RETURNED TO THE VILLAGE OF MAYWOOD PUBLIC WORKS DEPARTMENT. THE EXISTING CONCRETE FOUNDATIONS SHALL BE REMOVED TO 2 FT. BELOW GRADE AND REMOVED MATERIAL DISPOSED ACCORDINGLY. EXISTING WIRES CONNECTED TO THE FOUNDATIONS SHALL BE REMOVED AND CONDUITS SHALL BE CUT TO 2 FT. BELOW GRADE AND ABANDONED. THE CONTRACTOR SHALL NOT REMOVE EXISTING PLATFORM LIGHTING UNTIL THE PROPOSED PLATFORM LIGHTING HAS BEEN PUT INTO OPERATION AND ACCEPTED BY METRA.
7. RELOCATION OF EXISTING LIGHT POLES SHOULD NOT EFFECT THE OPERATION OF THE REMAINING LIGHTING. CONTRACTOR SHALL LOCATE AND INTERCEPT EXISTING CONDUIT & WIRES FEEDING THE LIGHT POLES, TO EXTEND THE EXISTING CIRCUITS TO THE NEW ELECTRIC CABINET. CONTRACTOR SHALL SPLICE NEW CONDUIT TO THE EXISTING CONDUIT PER MANUFACTURER RECOMMENDED SPLICING METHODS. ALL NEW SPLICES, FUSES AND FUSEHOLDERS SHALL BE FURNISHED AND INSTALLED FOR RECONNECTING THE LIGHTING CIRCUIT.
8. CONTRACTOR SHALL WORK IN CONJUNCTION WITH METRA TO TERMINATE ALL CIRCUITS IN LIGHTING/ELECTRIC PANELS.

VILLAGE OF MAYWOOD 40 MADISON STREET MAYWOOD, IL 60153	USER NAME = mmichalowicz	DESIGNED - GAH	REVISED -
		DRAWN - DRK	REVISED -
	PLOT SCALE = 10'	CHECKED - JPC	REVISED -
	PLOT DATE = 1/22/2016	DATE - 01/25/16	REVISED -

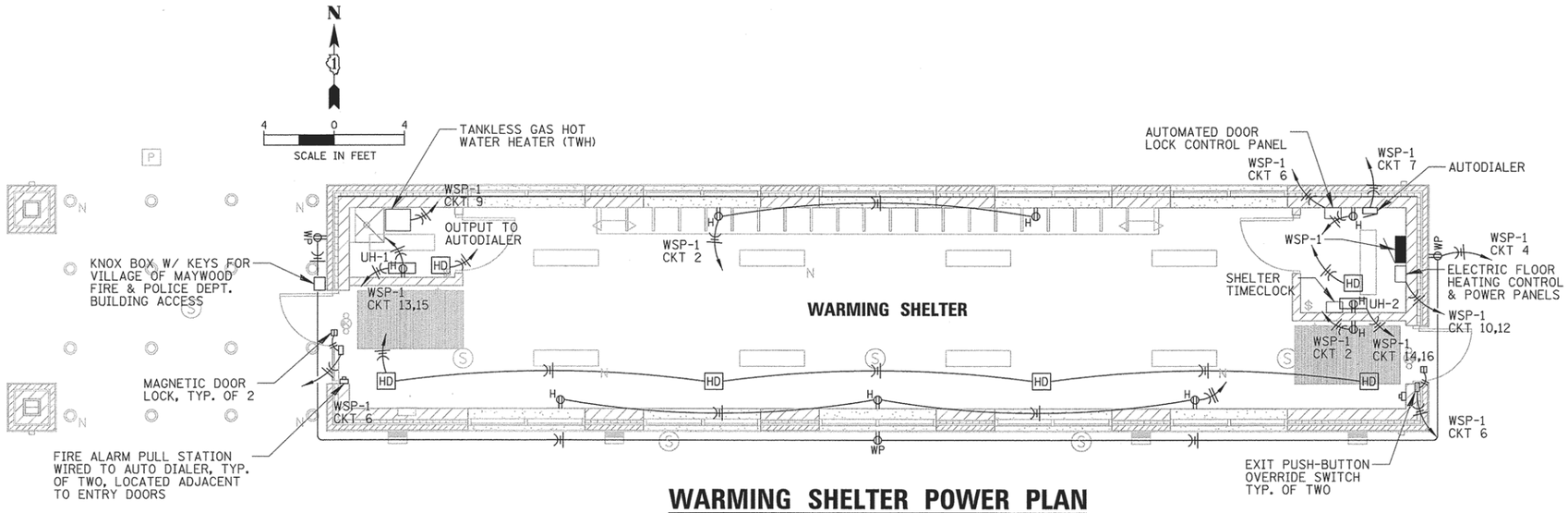
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAYWOOD METRA STATION
PROPOSED PLATFORM ELECTRICAL PLAN

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-00136-00-RR	COOK	65	43
		CONTRACT NO. 61C74		
		ILLINOIS FED. AID PROJECT		

FILE NAME = N:\MAYWOOD\130128\Maywood-UPW1234E10L.DGN



WARMING SHELTER POWER PLAN

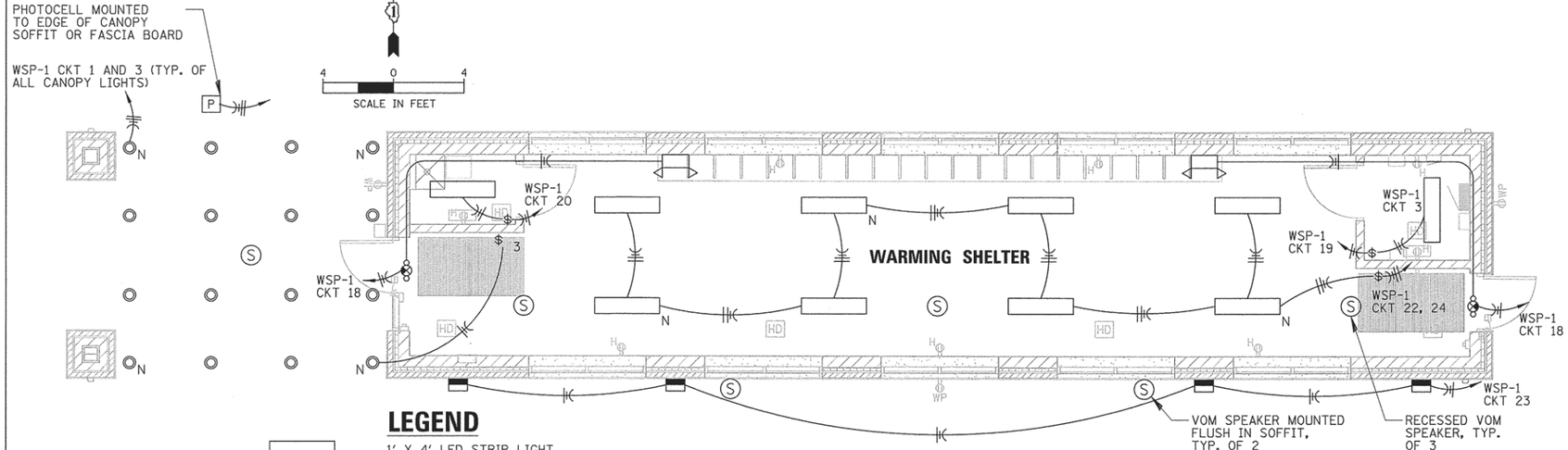
WSP-1 = WARMING SHELTER PANEL-1
SCALE: AS SHOWN

WARMING SHELTER LIGHTING AND POWER NOTES

1. SEE ARCHITECTURAL PLANS FOR DETAILED LOCATION/INSTALLATION INFORMATION FOR THE HAND DRYER, LIGHT FIXTURES, SWITCHES, AND RECEPTACLES.
2. ALL WIRE FOR LIGHTING AND POWER SHALL BE SINGLE COPPER CONDUCTOR TYPE THHN/THWN, UNLESS OTHERWISE SHOWN. MINIMUM WIRE SIZE SHALL BE NO. 12 AWG. WIRE SIZES NO. 10 AND SMALLER MAY BE SOLID. WIRE SIZES NO. 8 AND LARGER SHALL BE STRANDED.
3. ALL INTERIOR CONDUIT SHALL BE ELECTRIC METALLIC TUBING (EMT) MINIMUM SIZE SHALL BE ½". ALL CONDUITS SHALL BE CONCEALED; EXCEPT CONDUITS LOCATED IN THE MECH ROOM, WHICH SHALL RUN EXPOSED, OR AS DIRECTED BY OWNER.
4. ALL ELECTRICAL APPURTENANCES INCLUDING SWITCH PLATES, JUNCTION BOXES, AND PULL BOXES SHALL BE LABELED WITH THE PROPER CIRCUIT IDENTIFIERS.
5. EXACT LOCATION OF LIGHTING FIXTURES TO BE COORDINATED BY CONTRACTOR, SUBJECT TO REVIEW OF OWNER'S REPRESENTATIVE.
6. ALL CONDUITS SHALL INCLUDE AN INSULATED GROUND WIRE. CONDUIT SHALL NOT BE SOLELY USED FOR GROUND.
7. PROVIDED 6" ROUND DUCT BETWEEN EXHAUST FAN AND VENT (SEE DEPOT HVAC PLAN FOR LOCATION). EXHAUST VENT SHALL BE PROVIDED WITH A 6" COLLAR AND BE MOUNTED FLUSH WITH CANOPY SOFFIT.
8. ALL LIGHT SWITCHES & RECEPTACLES SHALL BE OF THE COMMERCIAL GRADE SPECIFICATION TYPE WITH A 20 AMP RATING.
9. SEE BUILDING LIGHTING CONTROLS ON SHEET E602 FOR BUILDING LIGHTING OPERATION.
10. PROPOSED LOCATION FOR AUTOMATIC DOOR LOCK CONTROLS SHALL BE LOCATED IN THE MECHANICAL ROOM. CONTRACTOR TO PROVIDE POWER AS REQUIRED FOR DOORS TO BE ARRANGED FOR AUTOMATIC LOCKING (SEE ONE LINE DIAGRAM ON WARMING SHELTER PARKING LOT LIGHTING PLAN).
11. WAITING AND CANOPY AREA LIGHTING CIRCUIT SHALL ALWAYS REMAIN ON UNTIL LAST TRAIN AND THEN NIGHT LIGHT CICUIT UNTIL ½ HOUR PRIOR TO FIRST TRAIN.
12. TRIP RATINGS SHOWN OR SPECIFIED ARE FOR ELECTRIC/HVAC ANTICIPATED EQUIPMENT. SELECTED EQUIPMENT MAY BE LARGER OR SMALLER THAN INDICATED. CONTRACTOR SHALL PROVIDE THE NECESSARY TRIP RATINGS AS REQUIRED BY NEC FOR THE ACTUAL EQUIPMENT PROVIDED.

WARMING SHELTER VOM NOTES

1. THE CONTRACTOR SHALL FURNISH AND INSTALL THE CONDUITS AS REQUIRED FOR COMPLETE INSTALLATION OF THE ELECTRICAL POWER TO THE STATION AND VOICE OF METRA. CONDUITS SHALL BE PROVIDED WITH PULL STRINGS FOR DEPOT VOICE OF METRA EQUIPMENT. CONTRACTOR SHALL CONTACT METRA FOR CONNECTION TO ANY VOM CONTROLLERS/ENCLOSURES.
2. CONTRACTOR SHALL FURNISH ALL INDOOR SPEAKERS, INCLUDING BAFFLES AND BACK BOXES, FOR METRA FORCES TO INSTALL.
3. SEE VOM SPEAKER ONE LINE DIAGRAM ON WIRING DIAGRAMS SHEET.



LEGEND

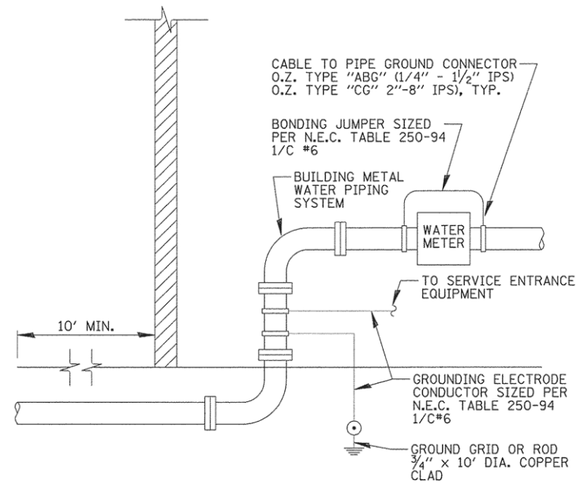
	1' X 4' LED STRIP LIGHT
N	NIGHT LIGHT
●	CANOPY LIGHT (6" RECESSED CAN)
S	VOICE OF METRA SPEAKERS
	EMERGENCY/EXIT LIGHT
	EMERGENCY LIGHT
HD	HEAT/SMOKE DETECTOR
WSP-1	WARMING SHELTER PANEL-1
CKT-1	CIRCUIT IDENTIFIER

WARMING SHELTER LIGHTING PLAN

WSP-1 = WARMING SHELTER PANEL-1
SCALE: AS SHOWN

NOTES:

1. ALL SWITCHES FOR INTERIOR WAITING ROOM LIGHTING AND CANOPY LIGHTING SHALL BE SHUNT KEY OPERATED
2. SEE SHEET 44 FOR SYMBOLS AND ABBREVIATIONS LEGEND

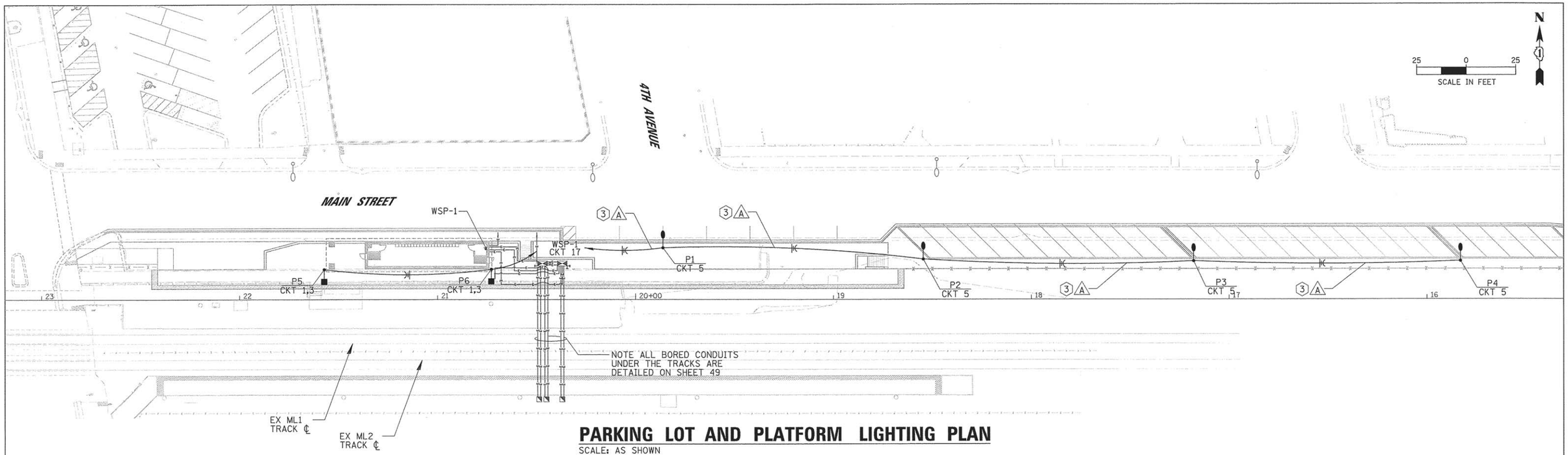


GROUNDING DETAIL WITH METAL PIPING

N.T.S.

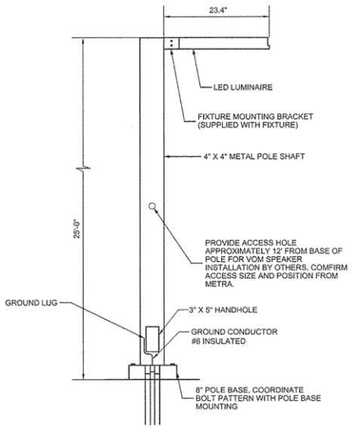
VILLAGE OF MAYWOOD, 40 MADISON STREET, MAYWOOD, IL 60153	USER NAME = mmichalowicz	DESIGNED - GAH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAYWOOD METRA STATION WARMING SHELTER LIGHTING AND POWER PLAN	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - DRK	REVISED -				13-00136-00-RR	COOK	65	44
	PLOT SCALE = 4'	CHECKED - JPC	REVISED -					CONTRACT NO. 61C74		
	PLOT DATE = 1/22/2016	DATE - 01/25/16	REVISED -		SCALE: $SCALE$ SHEET OF SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT		

FILE NAME = N:\MAYWOOD\130128\Maywood-DPW\1234E102.dgn



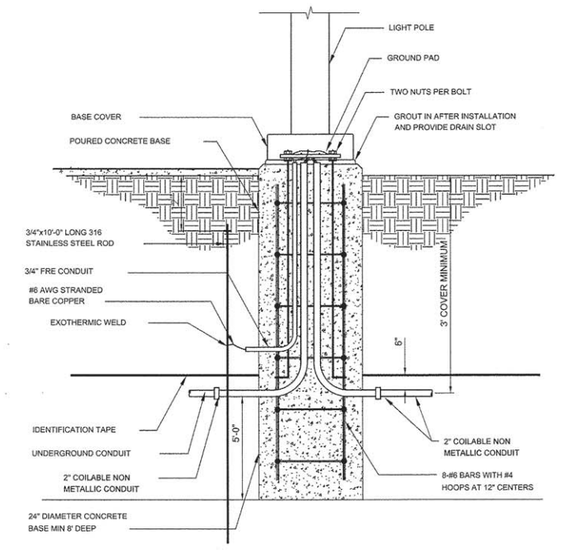
PARKING LOT AND PLATFORM LIGHTING PLAN

SCALE: AS SHOWN



PLATFORM LIGHTING UNIT

N.T.S



PLATFORM LIGHT POLE FOUNDATION DETAIL

N.T.S

NOTES:

1. INSTALL TWO CONDUITS IN EACH FIXTURE BASE AS SHOWN. CAP UNUSED CONDUIT BELOW GRADE FOR FUTURE EXTENSION AT EACH BASE AT THE END OF THE FIXTURE ROWS. CONTRACTOR TO INCLUDE EXACT DIMENSIONS OF CAP IN AS-BUILTS.
2. USE 4000 CLASS CONCRETE FOR POLE BASE.

LEGEND

- PLATFORM LIGHT STANDARD 25' SQUARE STEEL POLE WITH SPLITFITTER MOUNT AND 78W LED RAB ALED3T78 LUMINAIRE WITH TYPE II OPICS MOUNTED ON A 2'-6" ABOVE GRADE CONCRETE FOUNDATION
- PARKING LIGHT STANDARD 25' SPUN ALUMINUM POLE WITH 6' MAST ARM AND 180W LED GE ERS2 LUMINAIRE WITH INTEGRAL PHOTO CELL MOUNTED ON A 2'-6" ABOVE GRADE CONCRETE FOUNDATION
- EXISTING VILLAGE OF MAYWOOD HIGH PRESSURE SODIUM LUMINAIRE ON ALUMINUM POLE

CABLE SCHEDULE

1	PULL ROPE
2	4/C #8 (LIGHTING CKTS), 1/C #8, 1/C #8 NEUTRAL (RECEPTACLE CKT) & 1/C #8 GND
3	1/C #8, 1/C #8 NEUTRAL & 1/C #8 GROUND
4	2/C #6, 1/C #6 NEUTRAL & 1/C #6 GROUND
5	1/C #10, 1/C #10 NEUTRAL (EXIT LITE CKT), 2/C #8 (INFRARED HEATING) & 1/C #8 GROUND
6	2/C #14 CLASS 2 SHIELD CABLES (DOOR LOCK CKT)
7	2/C #10, 2/C #10 NEUTRAL (LITE CKT), 1/C #10, 1/C #10 NEUTRAL (EMERGENCY LITE CKT) & 1/C #10 GND
8	2/C #10, 1/C #10 NEUTRAL (HEAT DETECTOR CKT), 2/C #10 (EMERGENCY FIRE ALARM CKT) & 1/C #10 GND

CONDUIT SCHEDULE

A	1" SCH 40 UNIT DUCT BORED AND PULLED
B	1¼" SCH 40 UNIT DUCT BORED AND PULLED
C	1½" SCH 40 UNIT DUCT BORED AND PULLED
D	2" RGS CONDUIT BORED AND PULLED
E	2" SCH 40 UNIT DUCT BORED AND PULLED

VILLAGE OF MAYWOOD
40 MADISON STREET
MAYWOOD, IL 60153

USER NAME = mmichalowicz	DESIGNED - GAH	REVISED -	
	DRAWN - DRK	REVISED -	
PLOT SCALE = 25'	CHECKED - JPC	REVISED -	
PLOT DATE = 1/22/2016	DATE - 01/25/16	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAYWOOD METRA STATION
WARMING SHELTER PARKING LOT LIGHTING PLAN

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-00136-00-RR	COOK	65	45
		CONTRACT NO. 61C74		
	ILLINOIS FED. AID PROJECT			

FILE NAME = N:\MAYWOOD\130128\Maywood-UPW\1234E103.dgn

UP ELECTRIC PANEL SCHEDULE

NAME	LOCATION	MOUNTING	SUPPLIED FROM	VOLTAGE	BUS AMP SIZE	MAIN O.C. DEVICE
MDP-1	METRA ELECTRIC CABINET	SURFACE	SERVICE METER CENTER	120/240V, 1PH, 3W	100	MAIN BREAKER 100A

SERVICE	CONN. LOAD VA	CKT ID.	CKT NO.	A	B	CKT NO.	CKT ID.	CONN. LOAD VA	SERVICE
FUTURE PLATFORM LIGHT POLES	2,440	A	1	30A 2P		2	B	2,440	FUTURE PLATFORM LIGHT POLES
			3			4			
FUTURE PLATFORM RECEPTACLES	1,440	C	5	20A		6	D	1,440	FUTURE PLATFORM RECEPTACLES
HOUSE LIGHTING (PHOTOCELL)	540	E	7	20A		8	F	800	CABINET ELEC HEATER
CABINET CONTROLS	100	G	9	20A		10	H	280	CABINET RECEPT. & LITE
SPARE	-		11	20A		12		-	SPARE
SPARE	-		13	20A		14		-	SPARE
SPARE	-		15	20A		16		-	SPARE
SPARE	-		17	20A		18		-	SPARE
SPACE			19			20			SPACE
SPACE			21			22			SPACE
SPACE			23			24			SPACE
SPACE			25			26			SPACE
SPACE			27			28			SPACE
SPACE			29			30			SPACE

PHASE CONN. LOAD	A	5,700		B	3,780		
TOTAL CONN. LOAD	9,480						
EST. DEMAND LOAD	9,480						

WARMING SHELTER PANEL SCHEDULE

NAME	LOCATION	MOUNTING	SUPPLIED FROM	VOLTAGE	BUS AMP SIZE	MAIN O.C. DEVICE
WSP-1	WARMING HOUSE MECHANICAL ROOM	SURFACE	SERVICE METER CENTER	120/240V, 1PH, 3W	200	MAIN BREAKER 200A

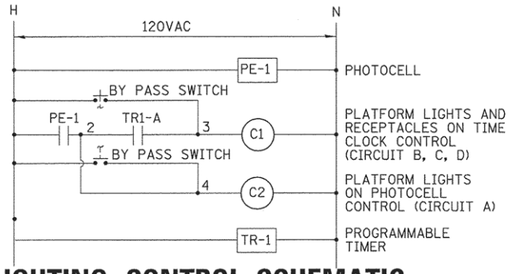
SERVICE	CONN. LOAD VA	CKT ID.	CKT NO.	A	B	CKT NO.	CKT ID.	CONN. LOAD VA	SERVICE
CANOPY LIGHTS	240	A	1	30A	20A	2	B	1,440	INTERIOR RECEPTACLES
INTERIOR LIGHTS	60	C	3	20A	20A	4	D	540	EXTERIOR RECEPTACLES
HEAT/SMOKE DETECTORS	100	E	5	20A	20A	6	F	500	DOOR LOCKS SYSTEM
AUTO DIALER	100	G	7	20A	20A	8	H	100	TIME CLOCK (INTERIOR & CANOPY LIGHTS)
TANKLESS GAS WATER HEATER	1,000	I	9	20A	100A	10	J	11,000	ELECTRIC HEATED FLOOR SYSTEM
FURNACE	1,200	K	11	20A	2P	12			
JANITORS CLOSET UNIT HEATER	100	M	13	20A	20A	14	L	100	MECHANICAL ROOM UNIT HEATER
PARKING LIGHTS	720	O	15	20A	20A	16	N	400	EMERGENCY/EXIT LIGHTING
MECH ROOM LIGHT	100	Q	17	20A	20A	18	P	100	JANITOR ROOM CLOSET LIGHT
SHELTER LIGHTING TIME CLOCK	-	S	19	20A	20A	20	R	100	FURNACE THEMOSTAT
HEATED FLOOR THEMOSTAT	100	U	21	20A	20A	22	T	300	INTERIOR SECURITY LIGHTS
SOUTH BUILDING EXTERIOR WALL PAK	400	W	23	20A	20A	24	V	1,000	INTERIOR LIGHTS
SPARE	-		25	20A	20A	26		-	SPARE
SPACE			27			28			SPACE
SPACE			29			30			SPACE

PHASE CONN. LOAD	A	9,580		B	10,120		
TOTAL CONN. LOAD	19,700						
EST. DEMAND LOAD	19,700						

NOTE: ALL CIRCUIT BREAKERS SHALL BE BOLT-ON TYPE.

PLATFORM ELECTRICAL EQUIPMENT COMPONENT SCHEDULE

1. COM ED 3 METER SET MOUNTED TO UP ELECTRIC CABINET FOR (1) 200A, (2) 100A, 120/240V, 1 PHASE, 3-WIRE SERVICES.
2. MAIN DISCONNECT SWITCH, 100 AMP, 240V, 1 PHASE 60 HZ.
3. ELECTRICAL PANEL "MDP-1", 100 AMP, 120/240V, 1 PHASE, 3W WITH 30 CIRCUITS
4. PROGRAMMABLE TIME SWITCH
5. PHOTOELECTRIC CELL AND BY-PASS SWITCH
6. TWO - 30A, 8 POLE CONTACTORS IN BOX
7. DUPLEX GFI RECEPTACLE
8. 120V WEATHERPROOF LAMPHOLDER
9. 120V, 800W ELECTRIC HEATER WITH INTEGRAL THERMOSTAT
10. THE CONTRACTOR SHALL FURNISH ALL THE ELECTRICAL EQUIPMENT AS SPECIFIED AND INSTALL AS PER DRAWINGS
11. THE CONTRACTOR SHALL NOT MAKE ANY CHANGES IN DRAWINGS AND SHALL NOT DEVIATE FROM THE REQUIREMENT OF THE SPECIFICATIONS.
12. ALL DISCREPANCIES SHALL BE REPORTED TO THE METRA PROJECT ENGINEER & HIS INTERPRETATION SHALL BE FINAL
13. ALL CONTROL WIRES SHALL BE #12 AWG. MIN.
14. ALL OTHER CONDUCTORS SHALL BE AS SPECIFIED
15. PLATFORM LIGHTS ON TIME CLOCK CONTROL CIRCUITS SHALL OPERATE FROM DUSK TO A SET TIME AFTER LAST TRAIN & ALSO A SET TIME BEFORE FIRST TRAIN TILL DAWN WITH TIME CLOCK AND PHOTO SENSOR OVERRIDE. SETTING OF TIMER TO BE DETERMINED BY METRA IN COORDINATION WITH LOCAL AUTHORITIES.
16. PLATFORM LIGHTS THAT ARE ON PHOTOCELL CONTROL CIRCUITS SHALL STAY 'ON' ALL NIGHT
17. POWER DISTRIBUTION BLOCKS, 600V, SIZED AS REQUIRED



LIGHTING CONTROL SCHEMATIC

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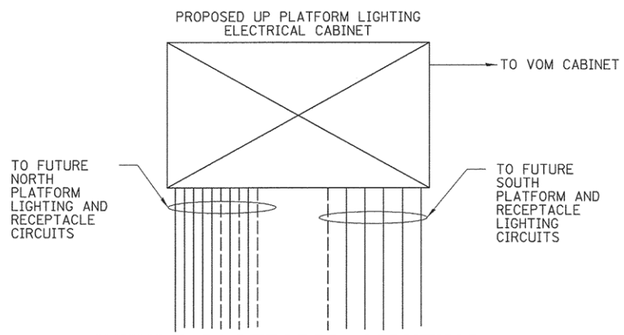

FUTURE PLATFORM LIGHTING ONE LINE DIAGRAM

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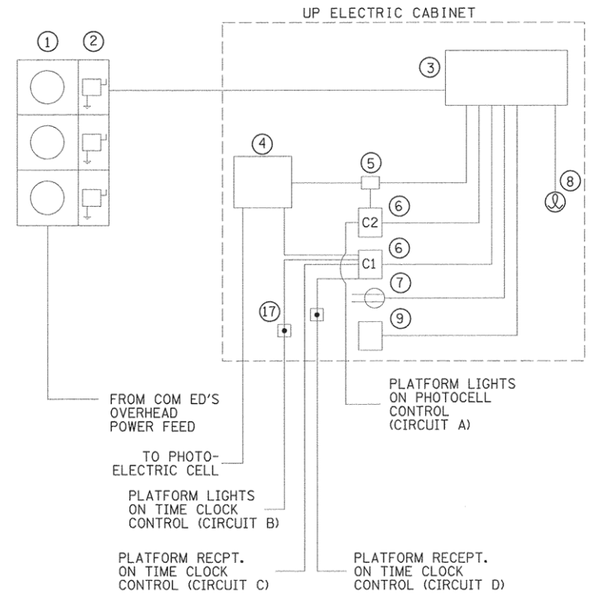
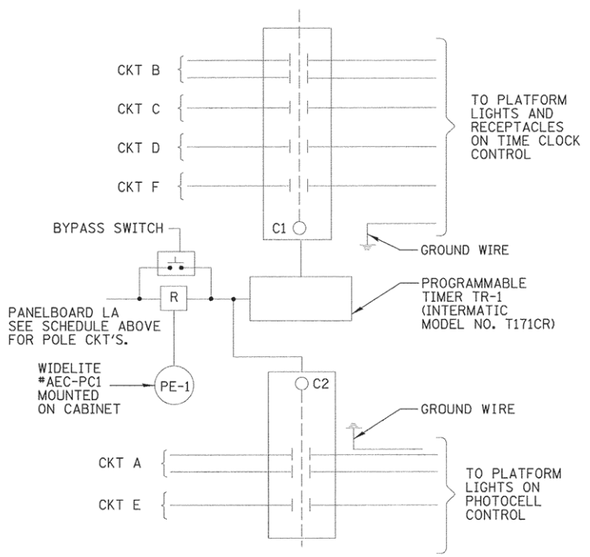


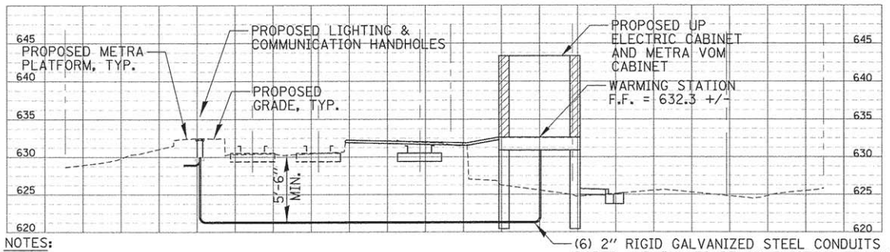
PLATFORM LIGHTING EQUIPMENT CONNECTION DIAGRAM

N.T.S.



FUTURE LIGHTING CONTROL WIRING DETAIL

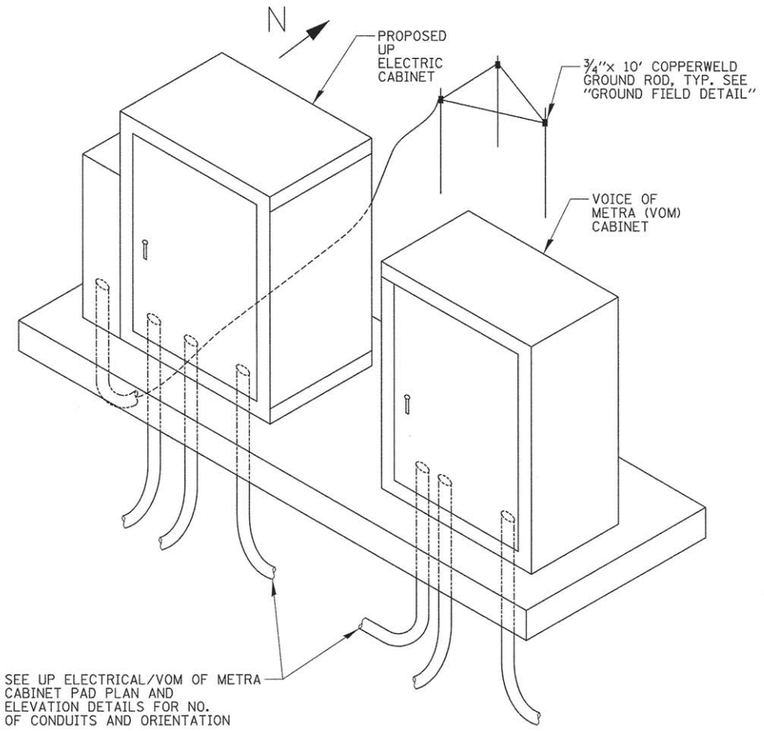
N.T.S.



NOTES:

1. LOCATIONS AND ELEVATIONS SHOWN ARE APPROXIMATE, CONTRACTOR TO VERIFY.
2. PROPOSED CONDUIT CROSSES TRACKS AT APPROXIMATELY 90°
3. BURIED RAILROAD CABLES AND FIBER OPTIC LINE SHALL BE COMPLETELY LOCATED WITH HAND DIGGING TO AVOID CONFLICTS.

PROPOSED RAILROAD CROSS SECTION

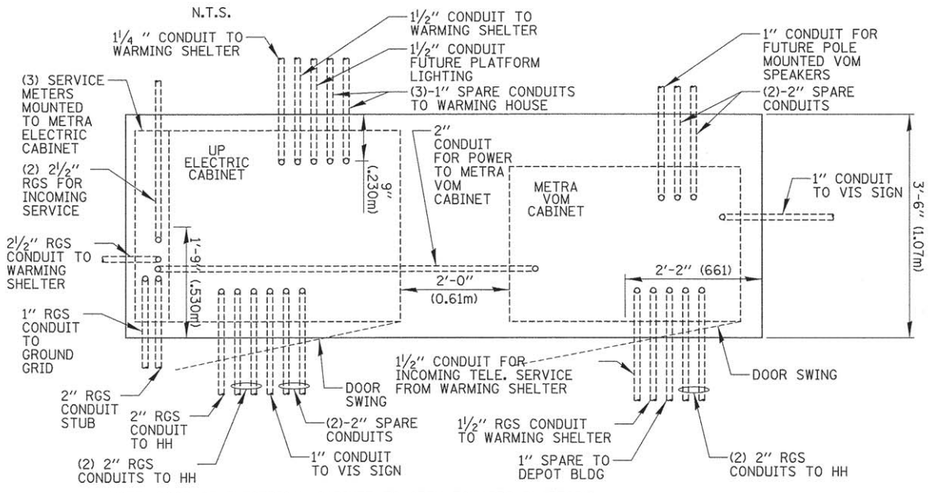


ELECTRICAL CABINET EQUIPMENT LAYOUT DETAIL

N.T.S.

NOTES

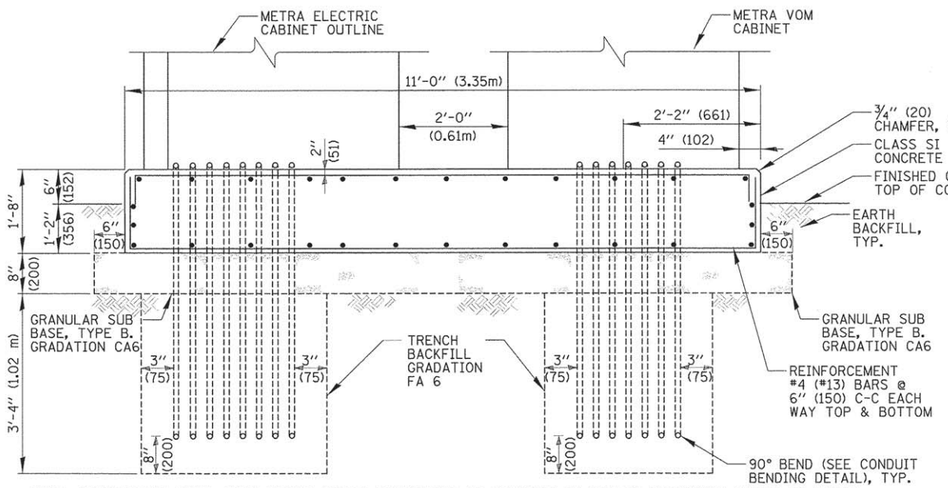
1. THE POWER AND CONTROL CONDUITS SHALL BE SIZED AS NOTED ON LAYOUT DRAWINGS.
2. ALL CONDUIT STUBS SHALL BE CAPPED.
3. ALL CONCRETE SHALL BE 3,500 PSI (28 KPA) AT 14 DAYS COMPRESSIVE STRENGTH. (REF. IDOT STD. SPEC. 1020).
4. THE CONTRACTOR SHALL FURNISH NECESSARY CONDUITS TO COMPLETE INSTALLATION OF THE ELECTRICAL CONTROL & VOICE OF METRA SYSTEM.
5. GRANULAR SUBBASE (CA-6) SHALL MEET IDOT STANDARD SPECIFICATION 1004.04. TRENCH BACKFILL (FA-6) SHALL MEET IDOT STANDARD SPECIFICATION 1003.04.
6. THE BENDING RADIUS OF ALL THE CONDUITS SHALL BE PER NEC.
7. THE CONTRACTOR SHALL FURNISH COLOR CODED ADHESIVE MARKERS TO IDENTIFY THE CONDUIT AND WIRES AS SPECIFIED ON THE PLANS.
8. 1" (25) C. INDICATES 1" (25) DIAMETER CONDUIT.
9. ALL EMPTY CONDUITS SHALL INCLUDE PULL STRINGS.
10. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
11. ALL REINFORCEMENT BARS SHALL BE EPOXY COATED.



NOTE: DOOR OF ELECTRICAL CABINET TO OPEN TOWARDS PLATFORM

UP ELECTRICAL/VOICE OF METRA CABINET PAD PLAN

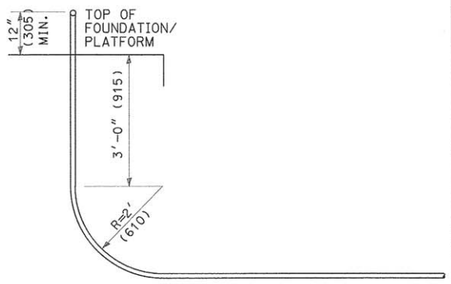
N.T.S.



NOTE: CONTRACTOR SHALL HAVE METRA VERIFY PLACEMENT OF CONDUITS IN THE UP ELECTRICAL/VOICE OF METRA CABINET PAD PRIOR TO POURING CONCRETE. THE CONTRACTOR SHALL ALSO PROVIDE UP ELECTRICAL/VOICE OF METRA CABINET PAD SHOP DRAWINGS AND DETAILS TO METRA FOR REVIEW/APPROVAL PRIOR TO CONSTRUCTION. THE SERVICE METER CENTER IS NOT SHOWN FOR CLARITY.

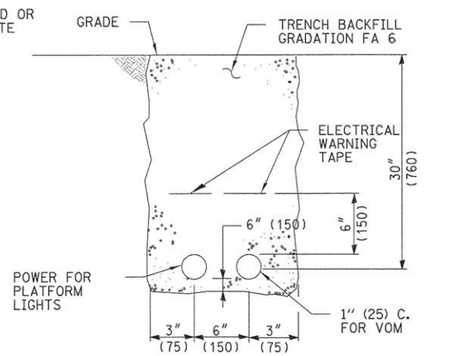
UP ELECTRICAL/VOICE OF METRA CABINET PAD ELEVATION

N.T.S.



CONDUIT BENDING DETAIL (TYP.)

N.T.S.



POWER AND CONTROL CONDUIT TRENCH DETAIL

N.T.S.

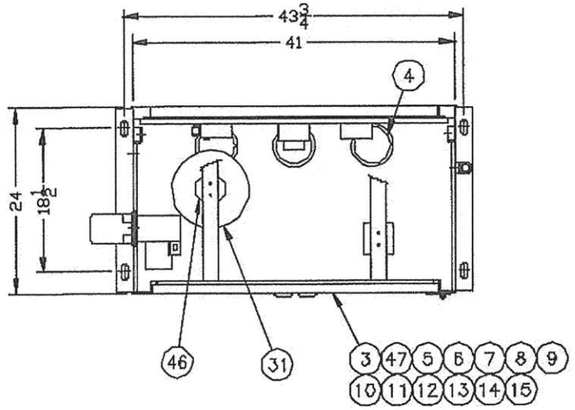
VILLAGE OF MAYWOOD 40 MADISON STREET MAYWOOD, IL 60153	USER NAME = mmichalowicz	DESIGNED - GAH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAYWOOD METRA STATION LIGHTING DETAILS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - DRK	REVISED -				13-00136-00-RR	COOK	65	47
	PLOT SCALE = 30'	CHECKED - JPC	REVISED -					CONTRACT NO. 61C74		
	PLOT DATE = 1/22/2016	DATE - 01/25/16	REVISED -		SCALE: $SCALE$ SHEET OF SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT		

FILE NAME = N:\MAYWOOD\13012B\Maywood-UPW\1234E503.DGN

07/23/99 13:41:41

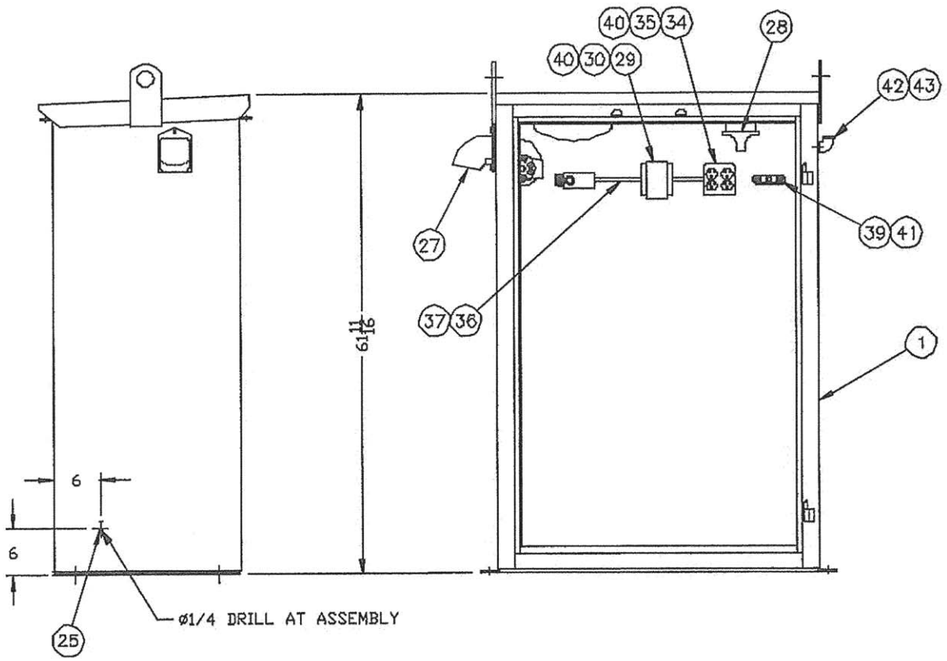
REVISIONS			
DESCRIPTION	ECO #	BY	DATE
REVISED & REDRAWN	A2641	MRH	9/13/94
ADD ITEM #48	A2875	MRH	12/1/94
REVISED ITEM #34	A3273	AJM	7/5/95
FINISH CHANGE TO PRIMER OVA GRY	A3576	TKG	1/9/96
FIN EXT & INT WAS POWER GRAY	A5080	RMW	8/11/98

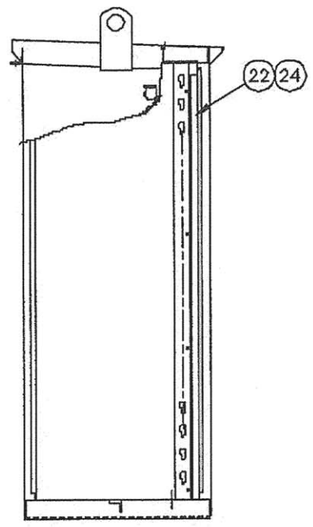
WALLS, ROOF AND DOORS INSULATED WITH 1/2" INSULATION.
FINISH: EXTERIOR AND INTERIOR PRIMED WITH BROWN WELDABLE PRIMER.
PAINT EXTERIOR ALUMINUM PER SPEC. 050999-11
PAINT INTERIOR INSULATION GRAY FIRE RESISTANT



ITEMS NOT SHOWN

(2) NAME PLATE
(16) LUBRICANT
(17) FITTING,GREASE
(18) SHIPPING SKID
(19) INSULATION, 1/2"
(44) 3/4 x 66" PIPE, ENTRANCE – SHIP LOOSE
(45) 3/4" SERVICE ENTRANCE – SHIP LOOSE





METRA

Safetran Systems Corporation Electro-Mechanical Division	Drn. MW	Ckd. RJG	Scale 3/32=1	Date 8/23/94
	Tolerance Unless Noted Decimals .XX ±.02 Fractions ±1/16 Decimals .XXX ±.005 Angles ±1°			

TITLE	No.
STEEL CASE ASSEMBLY 41" LOW CASE W/O BACK DOOR	C568200-410002

BILL OF MATERIAL

ITEM NO.	QTY. REQ'D.	U.O.M.	PART NUMBER	DESCRIPTION	# NOT SHOWN
1	1	EA	567201-41X2	WELDMENT, 41" LOW	
2	52.26	SF	099-60-050	INSULATION 1/2	*
3	20	EA	053020	PIN, INS SUPPORT	
4	3	EA	052853	PLUG, HOLE	
5	15	FT	104510	PACKING 11/16X9/16	
6	1	EA	051631-9X	HANDLE, DOOR W/SHAFT	
7	1	EA	567027-1	LATCH, DOOR	
8	1	EA	051630	WASHER, LATCH	
9	1	EA	001809-MSC	W LKS M 5/16	
10	1	EA	004044-HSC	CS HH 5/16-18 X.75	
11	2	EA	567008-1	ROD, LATCH	
12	1	EA	051440-2	HOOK, DOOR	
13	1	EA	567024	CAP	
14	2	EA	540027-A	FILTER, DOOR VENT	
15	2	EA	051629	PLATE, VENT COVER	
16	0	OZ	017-00-008	LUBRICANT	*
17	2	EA	083510	FITTING, ALEMITE	*
18	1	EA	051157-1	NAMEPLATE, SAFETRAN	*
19	1	EA	545110-500X	SKID, SHIPPING	*
22	1	EA	560026-3	BACKBOARD 41" LOW	
24	8	EA	002102-SC	N HX 5/16-18	
25	1	EA	035049-X	BOLT, GROUND 035049-X	
26	1	EA	007300-1	3/8" FLEXIBLE CONDUIT CLAMP	
27	1	EA	035035-7X	FAN, VENT AERIAL INLET TYPE 11	
28	1	EA	051154-X	SOCKET ASSY, LIGHT	
29	1	EA	007200	BOX 2 X 4 OUTLET	
30	1	EA	007240	COVER, HANDY BOX	
31	1	EA	051894-149	HEATER/FAN CORD-FREE WALL-HUGG	
32	1	EA	T12977	NIPPLE,OFFSET CONDUIT,1/2",REG	
33	2	EA	007151	CON LN 1/2	
34	2	EA	007335-1	3/8" CONNECTOR	
35	3	EA	007314	OUTLET, DUPLEX	
36	4	EA	007327	CONNECTOR 1/2 COMP	
37	5	FT	007250	CONDUIT 1/2	
38	1	EA	007241	COVER, OUTLET	
39	1	EA	025618-N15	FUSE,NON-RENEWABLE	
40	2	EA	007212	BOX 4" SQUARE	
41	1	EA	025618-1X	SWITCH,SINGLE DISCONNECT	
42	1	EA	007177	CON BU 3/4	
43	1	EA	097033-T10814	CONNECTOR, CABLE, 90 DEGREE AN	
44	1	EA	052852-74	PIPE, ENTRANCE	*
45	1	EA	007425	ENTRANCE 3/4	*
47	4	EA	005191-FPSC	TS PH 8-F X .375	
48	1	EA	050981-4	GASKET, COVER	
49	1	EA	050981	COVER, ENTRANCE	
50	3	EA	002104-1	N CAGE 3/8-16	
51	3	EA	001810-ME	W LKS M 3/8	
52	3	EA	004068-HE	CS HH 3/8-16 X 1	
53	1	EA	007152	CON LN 3/4	
54	1	EA	007315	SWITCH, LIGHT	
55	1	EA	051894-1498	HEATER/FAN BRACKET SUPPORT	
56	1	EA	007234	COVER,4" SQUARE,1/2" DEEP FOR	
57	0	EA	050999-11	FINISH, STEEL HOUSES, SHELTERS	*

VILLAGE OF MAYWOOD
40 MADISON STREET
MAYWOOD, IL 60153

USER NAME = mmichalowicz	DESIGNED - GAH	REVISED -	
	DRAWN - DRK	REVISED -	
PLOT SCALE = 30'	CHECKED - JPC	REVISED -	
PLOT DATE = 1/22/2016	DATE - 01/25/16	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAYWOOD METRA STATION
VOICE OF METRA CABINET LAYOUT DETAIL

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-00136-00-RR	COOK	65	48
		CONTRACT NO. 61C74		
	ILLINOIS FED. AID PROJECT			

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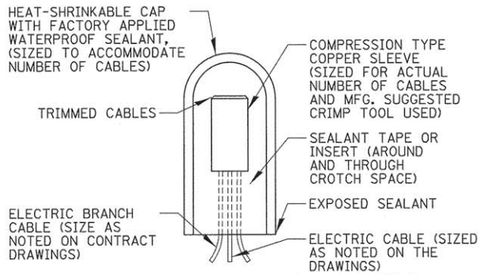
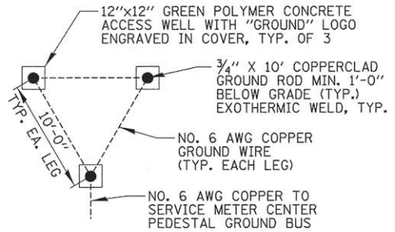


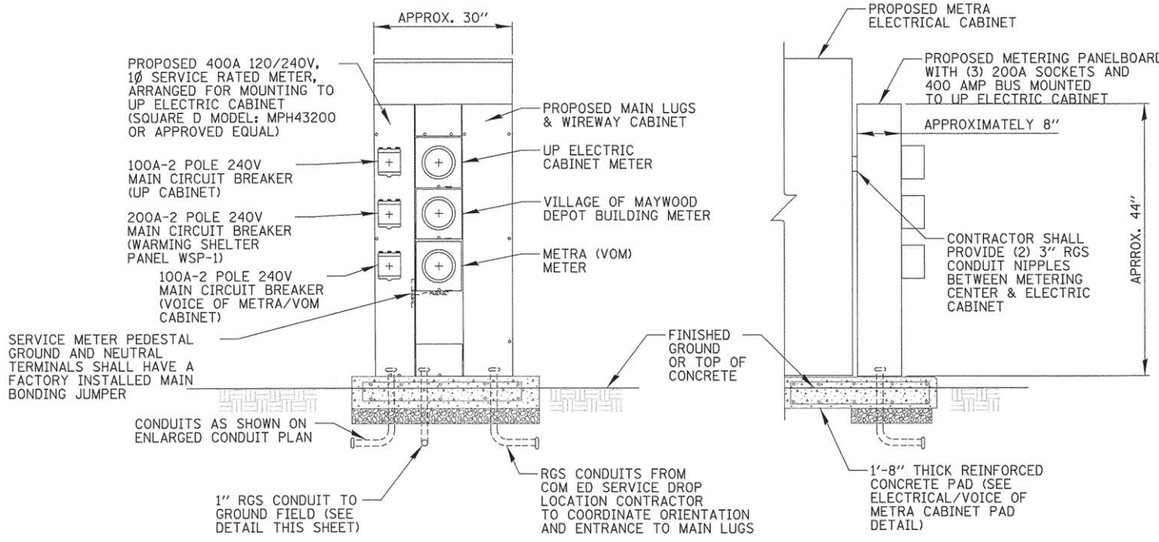
SPLICING ELECTRIC CABLE

N.T.S.



GROUND FIELD DETAIL (TYP.)

N.T.S.



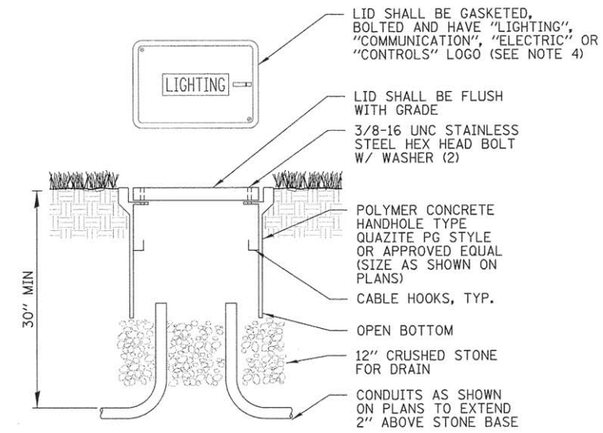
FRONT VIEW **SIDE VIEW**

NOTES:

1. ALL CIRCUIT BREAKERS SHALL HAVE LOCKABLE COVERS.

SERVICE METER DETAIL

N.T.S.

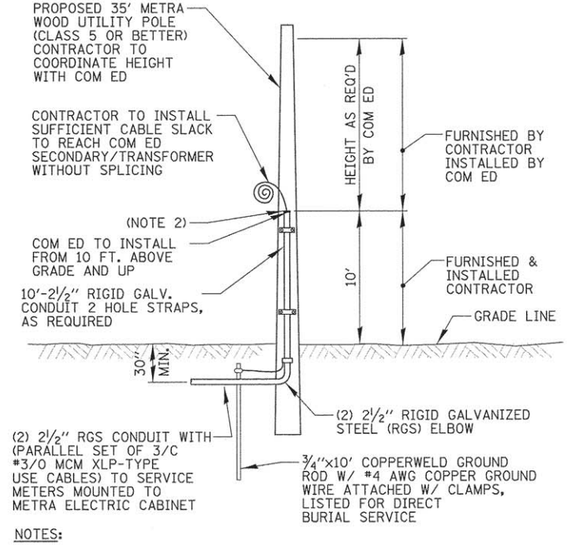


NOTES:

1. SPLICES IN CONCRETE HANDHOLES SHALL BE WATERPROOF.
2. POLYMER CONCRETE HANDHOLE AND LID SHALL BE GREEN IN LANDSCAPED AREAS AND MATCH COLOR IN CONCRETE/BRICK AREAS.
3. BOX & LID SHALL MEET/EXCEED ANSI TIER 15 LOADING REQUIREMENTS AND BE UL LISTED.
4. LIGHTING, COMMUNICATION, ELECTRIC AND LOW VOLTAGE CONDUITS SHALL BE PROVIDED WITH DEDICATED HANDHOLES. HANDHOLE LIDS FOR LIGHTING CONDUITS SHALL HAVE A "LIGHTING" LOGO; HANDHOLE LIDS FOR THE VOICE OF METRA (SPEAKERS & VIS SIGN) CONDUITS SHALL HAVE A "COMMUNCIATION" LOGO; HANDHOLE LIDS FOR ELECTRIC CONDUITS SHALL HAVE A "ELECTRIC"; AND, HANDHOLE LIDS FOR LOW VOLTAGE CONDUITS SHALL HAVE A "CONTROLS" LOGO.

COMPOSITE CONCRETE HANDHOLE

N.T.S.



NOTES:

1. ALL WORK SHALL CONFORM TO COM ED'S BOOK OF "INFORMATION AND REQUIREMENTS FOR THE SUPPLY OF ELECTRIC SERVICE."
2. CONTRACTOR TO PROVIDE CONDUIT BUSHING AND SEALING COMPOUND AT TOP OF RISER.

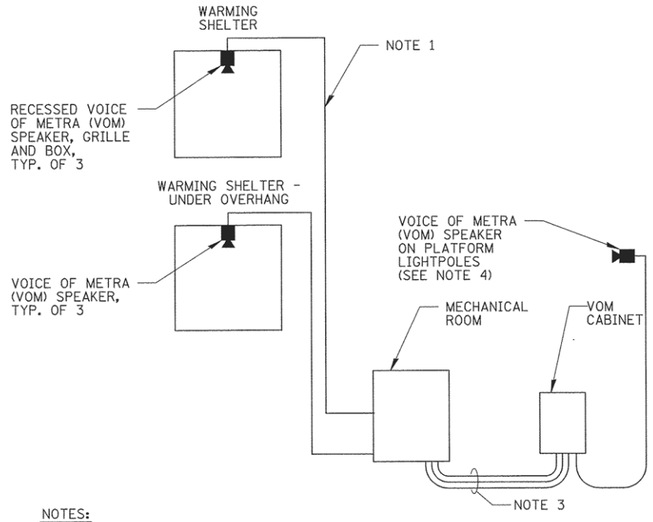
COM ED OVERHEAD CONNECTION POLE

N.T.S.

VILLAGE OF MAYWOOD 40 MADISON STREET MAYWOOD, IL 60153	USER NAME = mmichalowicz	DESIGNED - GAH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAYWOOD METRA STATION LIGHTING DETAILS
		DRAWN - DRK	REVISED -		
	PLOT SCALE = 30'	CHECKED - JPC	REVISED -		
	PLOT DATE = 1/22/2016	DATE - 01/25/16	REVISED -		SCALE: $SCALE$ SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-00136-00-RR	COOK	65	49
		CONTRACT NO. 61C74		
		ILLINOIS FED. AID PROJECT		

FILE NAME = N:\MAYWOOD\130128\Maywood-UPW\1234E501.DGN

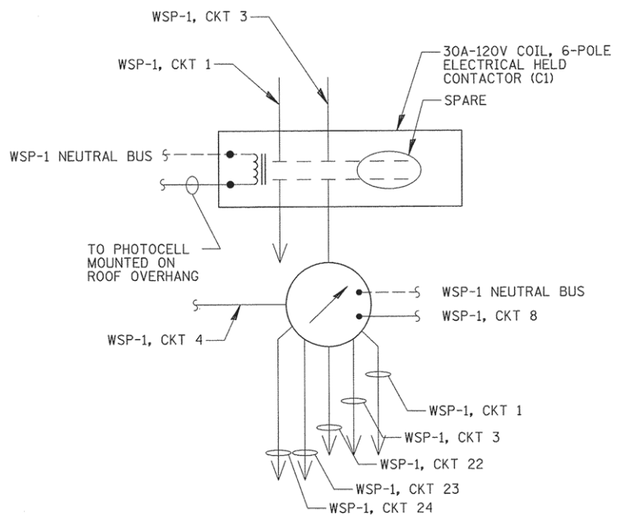


NOTES:

1. PROVIDE DEDICATED 1" CONDUIT FOR SPEAKER WIRING WITHIN THE WARMING SHELTER. CONTRACTOR SHALL PROVIDE JB'S AS REQUIRED, AND PULL STRING IN CONDUIT FROM MECHANICAL ROOM TO EACH SPEAKER.
2. CONTRACTOR SHALL FURNISH & INSTALL RECESSED SPEAKER, SPEAKER BOX AND GRILLE (ALTEC LANSING SPEAKER MODEL NO. CF404-8T). SPEAKERS TO BE WIRED BY METRA.
3. PROVIDE TWO DEDICATED CONDUITS BETWEEN MECHANICAL ROOM AND PROPOSED VOM CABINETS. ONE 1½" CONDUIT FOR VOM SPEAKER WIRING (WIRING PROVIDED BY OTHERS); ONE 1½" CONDUIT FOR TELEPHONE (WIRING PROVIDED BY OTHERS); AND ONE 1" SPARE. PROVIDE PULL STRING IN ALL CONDUITS. CAP CONDUITS AND LOCATE.
4. PROVIDE DEDICATED 1" SPARE CONDUIT AND PULL ROPE BETWEEN V.O.M. CABINET AND SPARE VOM SPARE CONDUIT FOR PLATFORM LIGHTPOLES. METRA TO FURNISH SPEAKERS.

VOM SPEAKER ONE LINE DIAGRAM

N.T.S.



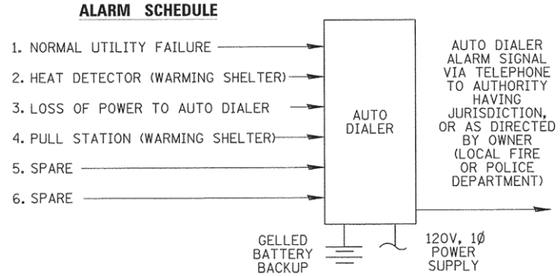
NOTES:

1. ROUTE CIRCUIT #3 FROM WSP-1 THROUGH LIGHTING CONTACTOR C1 AND THEN THROUGH TIME CLOCK.
2. CIRCUIT #1 SHALL OPERATE FROM DUSK UNTIL 15 MINUTES AFTER LAST TRAIN LEAVES AND ALSO A SET TIME BEFORE THE FIRST TRAIN TILL DAWN WITH TIME CLOCK AND PHOTOCELL OVERRIDE. SETTING OF TIMER TO BE DETERMINED BY METRA, CONTRACTOR TO COORDINATE.
3. WAITING AREA LIGHTING CKT 3 SHALL ALWAYS REMAIN ON. WAITING AREA LIGHTING CKT 3 SHALL TURN OFF 15 MINUTES AFTER LAST TRAIN LEAVES AND A SET TIME BEFORE THE FIRST TRAIN. SETTING OF TIMER TO BE DETERMINED BY METRA, CONTRACTOR TO COORDINATE.
4. TIMER SHALL BE INTERMATIC MODEL #T1471BCR.

WARMING SHELTER BUILDING LIGHTING CONTROLS

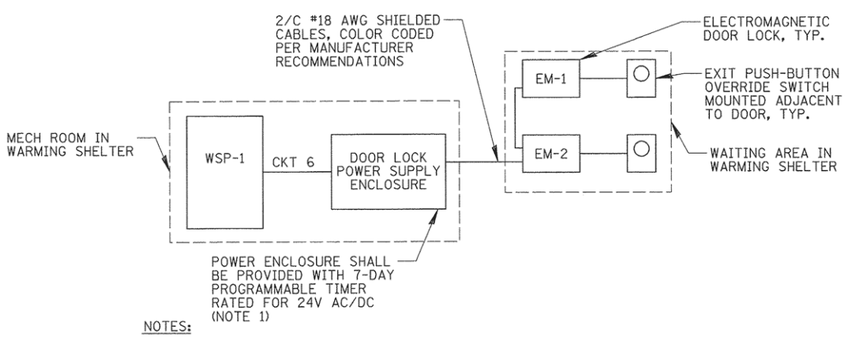
N.T.S.

ALARM SCHEDULE



AUTO DIALER ONE LINE DIAGRAM

N.T.S.

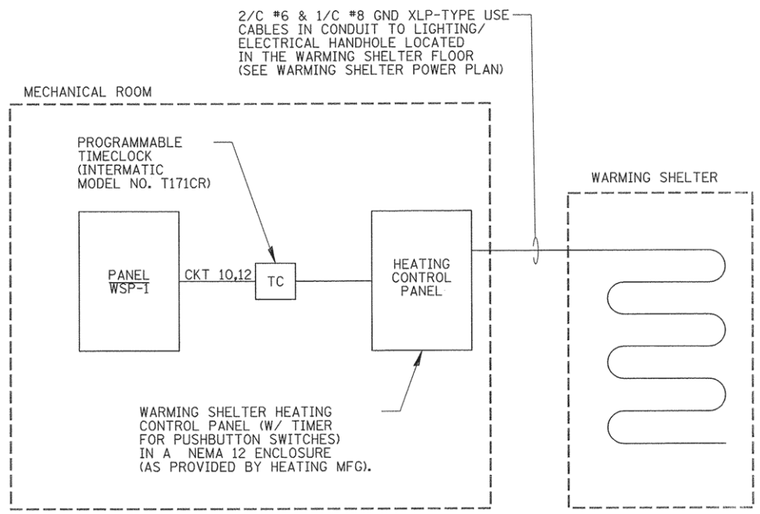


NOTES:

1. ELECTROMAGNETIC DOOR LOCKS SHALL LOCK 15 MINUTES AFTER THE LAST TRAIN LEAVES AND OPEN 30 MINUTES BEFORE THE FIRST TRAIN. SETTING OF THE PROGRAMMABLE TIMER SHALL BE DETERMINED BY VILLAGE OF MAYWOOD, CONTRACTOR TO COORDINATE.

DOOR LOCK MECHANISM CONTROL ONE LINE DIAGRAM

N.T.S.

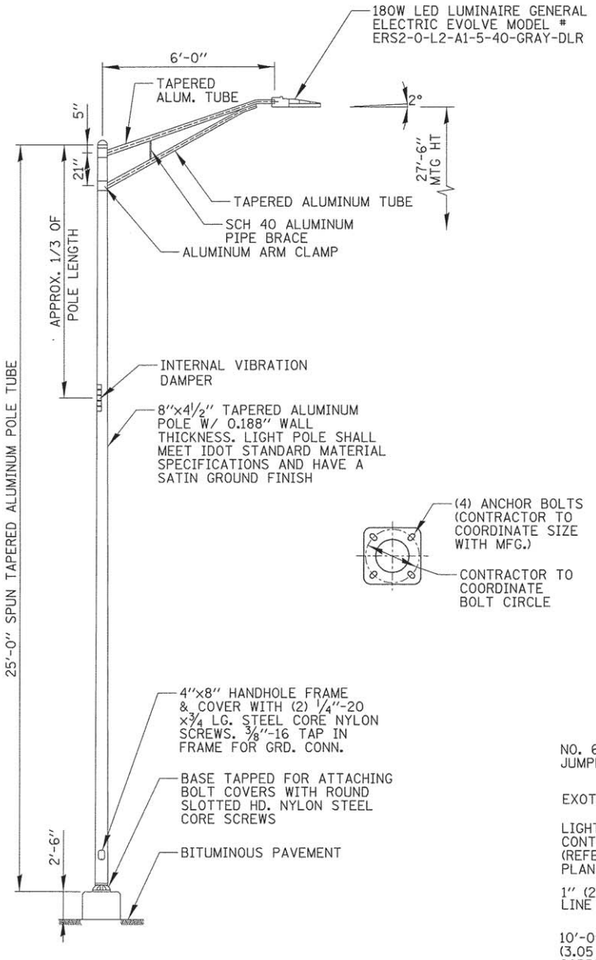


HEATED FLOOR CONTROL ONE-LINE DIAGRAM

N.T.S.

VILLAGE OF MAYWOOD 40 MADISON STREET MAYWOOD, IL 60153	USER NAME = mmichalowicz	DESIGNED - GAH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAYWOOD METRA STATION WIRING DIAGRAMS				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - DRK	REVISED -							13-00136-00-RR	COOK	65	50
	PLOT SCALE = 50'	CHECKED - JPC	REVISED -								CONTRACT NO. 61C74		
	PLOT DATE = 2/19/2016	DATE - 01/25/16	REVISED -		SCALE: #SCALE#	SHEET OF SHEETS	STA.	TO STA.			ILLINOIS FED. AID PROJECT		

FILE NAME = N:\MAYWOOD\130128\Maywood-DPW1234E602.dgn

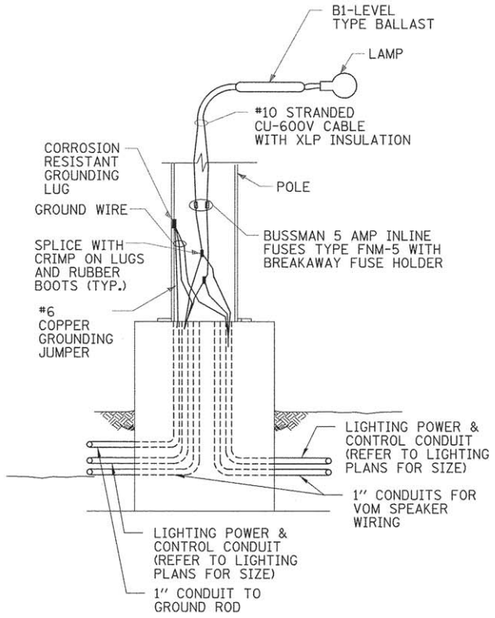


NOTES:

1. LIGHT POLES SHALL MEET WIND LOADING & VIBRATION REQUIREMENTS ACCORDING TO THE LATEST AASHTO STANDARDS AND ARTICLE 1069.01 IN STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
2. POLE HANDHOLE SHALL FACE AWAY FROM TRAFFIC.

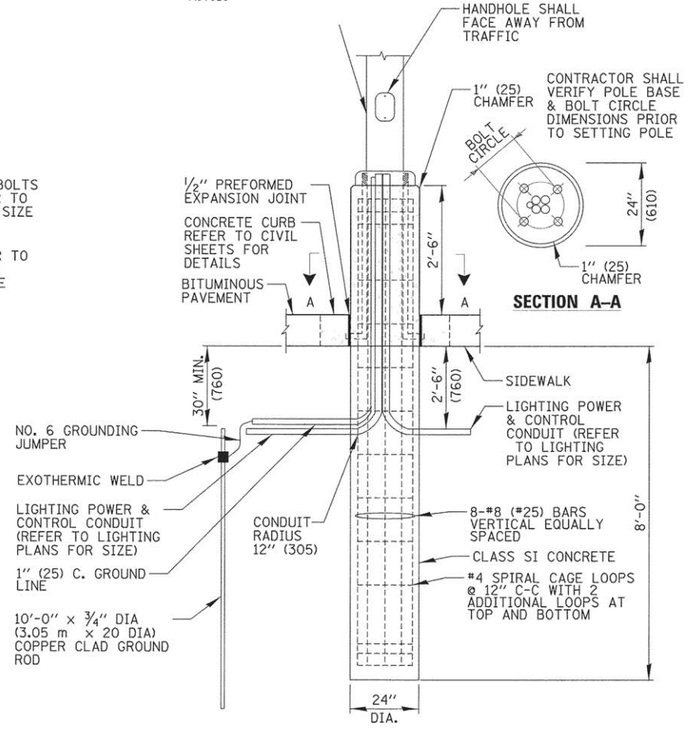
PARKING LIGHTING UNIT

N.T.S.



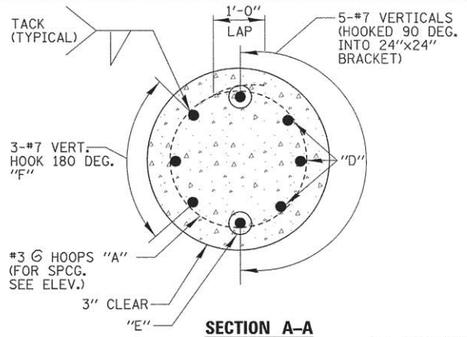
TYPICAL POLE WIRING

N.T.S.

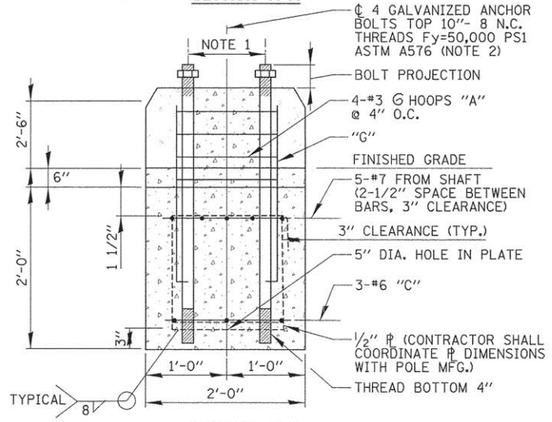


PARKING LIGHT POLE FOUNDATION DETAIL

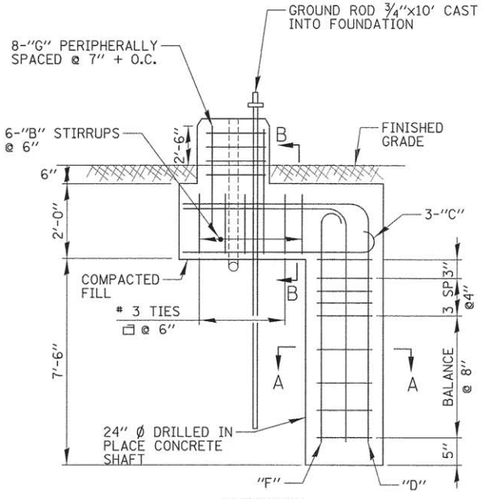
N.T.S.



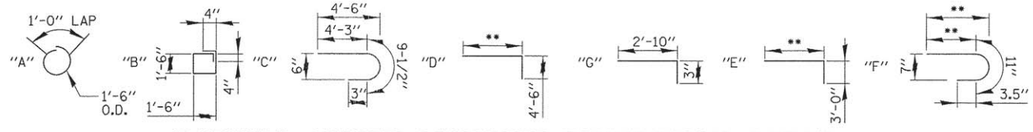
SECTION A–A



SECTION B–B

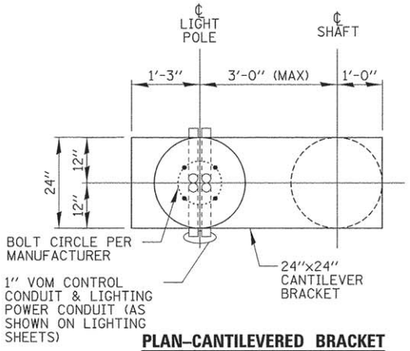


ELEVATION



PARKING OFFSET CONCRETE FOUNDATION DETAIL

N.T.S.



PLAN–CANTILEVERED BRACKET

NOTES:

1. BOLT SIZE & CIRCLE PER POLE MANUFACTURER.
2. CONCRETE SHALL BE IDOT CLASS SI, WITH A MINIMUM COMPRESSIVE STRENGTH OF 3500 PSI AT 14 DAYS.
3. FOUNDATIONS SHALL BE VIBRATED IN ACCORDANCE WITH IDOT STANDARD PRACTICES.
4. REINFORCING BARS SHALL CONFORM TO BILLET STEEL BARS. (ASTM-A615) SPECIFICATIONS WITH A 6000 PSI MINIMUM YIELD STRENGTH.
5. FOUNDATION AS SHOWN REPRESENTS 14.5 LINEAL FEET.

BILL OF MATERIALS				
QUAN.	MARK	SIZE	LENGTH	SHAPE
*	A	#3	5'-9"	○
6	B	#3	6'-8"	□
3	C	#6	5-3½"	⌒
8	G	#6	2'-1"	⌒
3	D	#7	**	⌒
2	E	#7	**	⌒
3	F	#7	**	⌒
REINFORCING BARS LBS.				285
ANCHOR BOLTS NO.				4
ANCHOR BOLT PLATE NO.				1

* QUANTITY AS REQUIRED
** SIZE AS REQUIRED

VILLAGE OF MAYWOOD
40 MADISON STREET
MAYWOOD, IL 60153

USER NAME = mmichalowicz	DESIGNED - GAH	REVISED -	
	DRAWN - DRK	REVISED -	
PLOT SCALE = 30'	CHECKED - JPC	REVISED -	
PLOT DATE = 2/19/2016	DATE - 01/25/16	REVISED -	

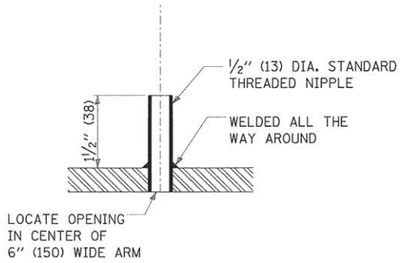
FILE NAME = N:\MAYWOOD\13012B\Maywood-DPW\1234E504.DGN

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

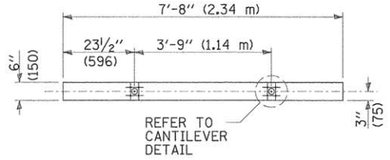
MAYWOOD METRA STATION
LIGHTING DETAILS

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

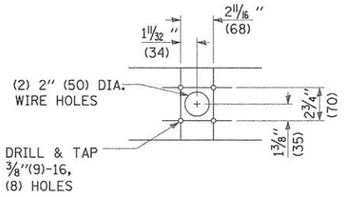
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-00136-00-RR	COOK	65	51
		CONTRACT NO. 61C74		
	ILLINOIS FED. AID PROJECT			



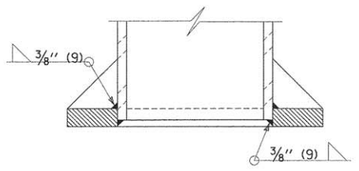
DETAIL OF THREADED NIPPLE ATOP THE ARM
N.T.S.



UNDERSIDE OF CANTILEVER ARM
N.T.S.



CANTILEVER DETAIL
N.T.S.

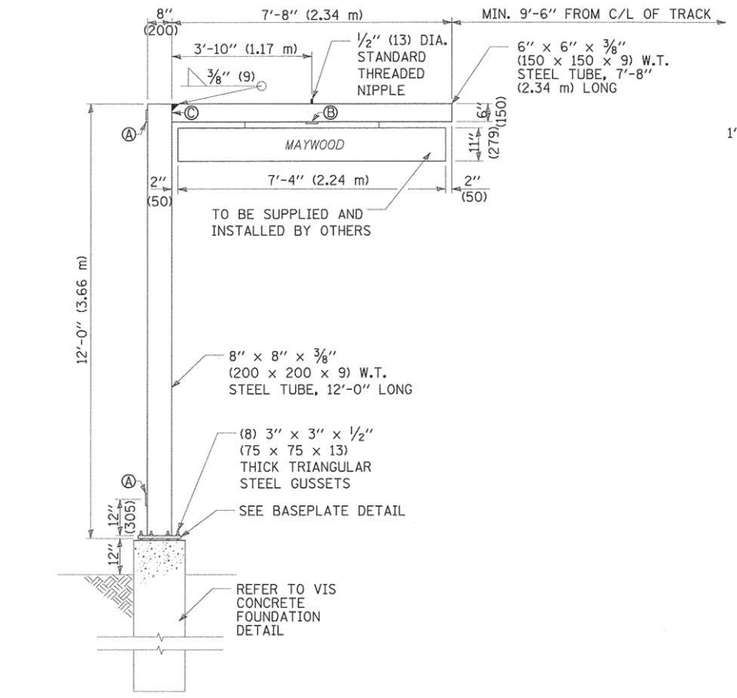


SECTION B–B
N.T.S.

NOTES

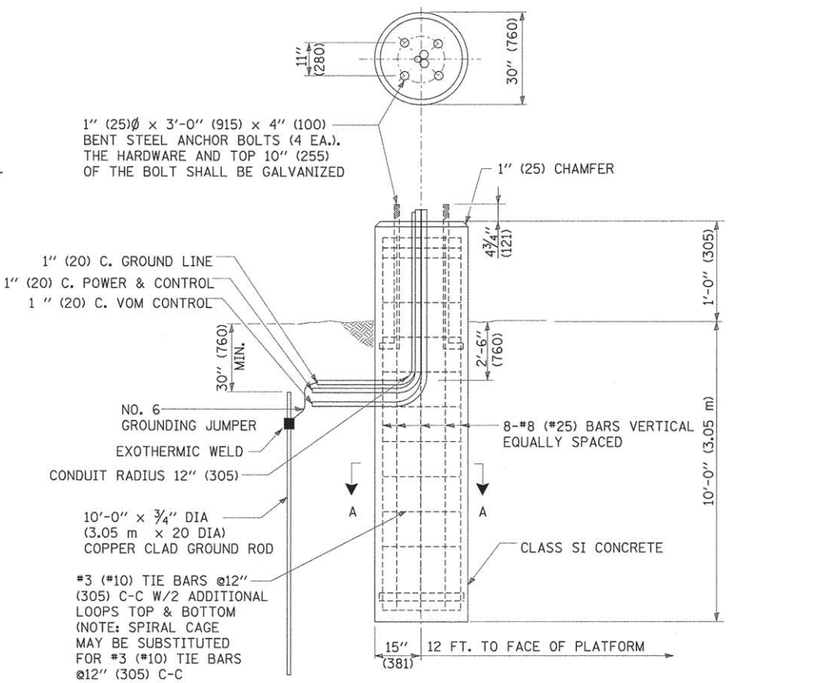
1. THE POWER AND CONTROL CONDUITS SHALL BE SIZED AS NOTED ON LAYOUT DRAWINGS.
2. ALL CONDUIT STUBS SHALL BE CAPPED.
3. ALL CONCRETE SHALL BE 3,500 PSI (28 KPA) AT 14 DAYS COMPRESSIVE STRENGTH. (REF. IDOT STD. SPEC. 1020).
4. THE BENDING RADIUS OF ALL THE CONDUITS SHALL BE PER NEC.
5. THE CONTRACTOR SHALL IDENTIFY THE CONDUITS AS SPECIFIED AND FURNISH AN ADHESIVE COLOR CODED MARKING ON THE CONDUITS FOR IDENTIFICATION.
6. 1" (25) C. INDICATES 1" (25) DIAMETER CONDUIT.
7. ALL CONDUITS SHALL INCLUDE PULL STRINGS.
8. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
9. CONTRACTOR SHALL FURNISH POLE AS MANUFACTURED BY FUNK FORGING CO. CHICAGO HEIGHTS, IL. PHONE NO (708) 757-7421 OR APPROVED EQUAL IN ACCORDANCE WITH THESE PLANS AND SPECIFICATION SECTION 5500 AND 9900.
10. ALL REINFORCEMENT BARS SHALL BE EPOXY COATED.

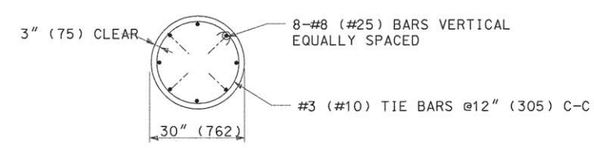
NOTE: POLE TO BE PRIMED WITH CORBIT 3R3 RED QUICK DRY METAL PRIMER, OR APPROVED EQUAL



Ⓐ 4" x 6" (100 x 150) HANDHOLE WITH COVER PLATE
Ⓑ 3" x 5" (75 x 127) HANDHOLE WITH COVER PLATE (ON THE BOTTOM)
Ⓒ 4" x 4" (100 x 100) OPENING (ON THE SIDE OF THE COLUMN)

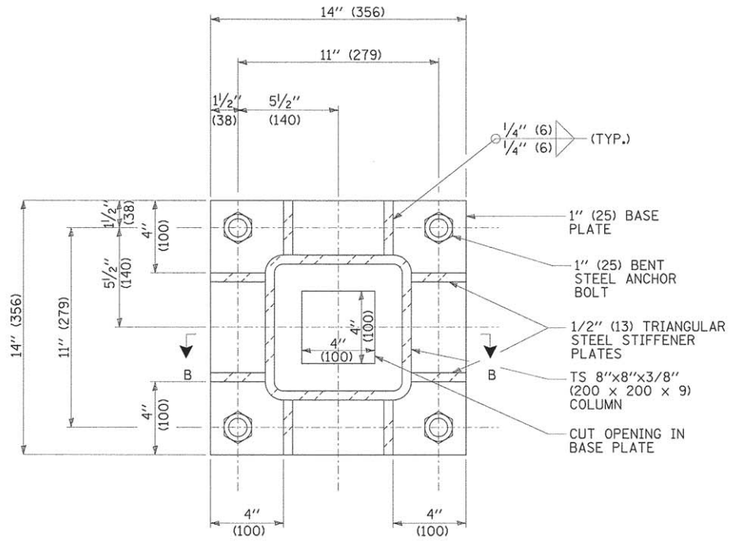
VIS SIGN
N.T.S.





SECTION A–A

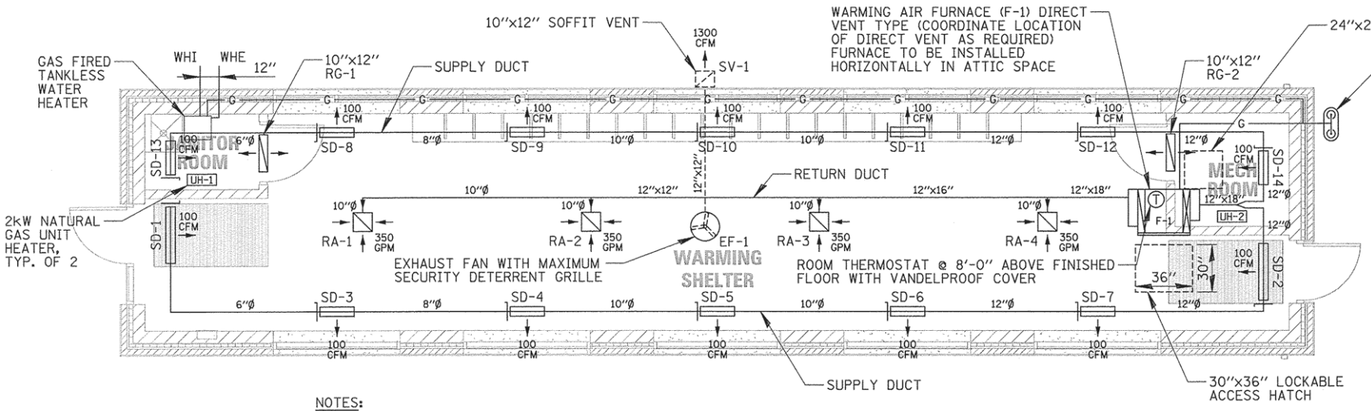
VIS CONCRETE FOUNDATION DETAIL
N.T.S.



BASE PLATE DETAIL FOR LED FOUNDATION
N.T.S.

VILLAGE OF MAYWOOD 40 MADISON STREET MAYWOOD, IL 60153	USER NAME = mmicholowicz	DESIGNED - GAH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAYWOOD METRA STATION VIS SIGN DETAILS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - DRK	REVISED -				13-00136-00-RR	COOK	65	52
	PLOT SCALE = 30'	CHECKED - JPC	REVISED -					CONTRACT NO. 61C74		
	PLOT DATE = 1/22/2016	DATE - 01/25/16	REVISED -		SCALE: $SCALE$ SHEET OF SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT		

FILE NAME = N:\MAYWOOD\130120\Maywood-UPW\1234E505.DGN



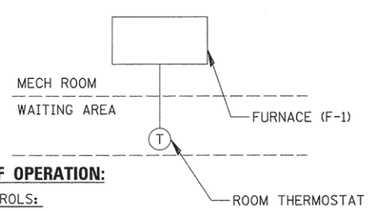
NOTES:

1. ALL SUPPLY AIR (SD) REGISTERS AND RETURN AIR (RA) GRILLES SHALL HAVE ADJUSTABLE DAMPERS
2. INTAKE & EXHAUST VENTS FOR TANKLESS GAS WATER HEATER SHALL BE LOCATED 3' ABOVE THE HEIGHT OF THE AIR SUPPLY INLET FOR FURNACE (F-1).
3. CONTRACTOR TO PROVIDE MINIMUM R5 INSULATION FOR ALL SUPPLY AND RETURN DUCTS.

HVAC PLAN

SCALE: AS SHOWN

EQUIPMENT SCHEDULE				
IDENTIFICATION	ITEM	LOCATION	SIZE OR RATING	DESCRIPTION
F-1	FURNACE	MECH ROOM	90,000 BTU/HR 96% EFFICIENCY 120V, 12.8A, 1770 CFM	LENNOX ELITE SERIES EL296UH090XV48C
Ⓣ	THERMOSTAT	WAITING AREA	DIGITAL ADJUSTABLE 2°-100° F	---
SD-1 & SD-2	SLOT DIFFUSER W/ VOLUME DAMPER	WAITING AREA	36" LONG	TITUS FL-15-JT (2) 1½" WIDE SLOTS
SD-3 TO SD-12	SLOT DIFFUSER W/ VOLUME DAMPER	WAITING AREA	20" LONG	TITUS FL-15-JT (2) 1½" WIDE SLOTS
SD-13 & SD-14	SLOT DIFFUSER W/ VOLUME DAMPER	MECH ROOM & JANITOR ROOM	20" LONG	TITUS FL-15-JT (2) 1½" WIDE SLOTS
RG-1 & RG-2	RETURN GRILL W/ FIRE DAMPER MTD IN DOORS	MECH ROOM & JANITOR ROOM	10" X 12"	TITUS 350 FL
RA-1 TO RA-4	RETURN GRILL W/ VOLUME DAMPER	WAITING AREA	16" X 16"	TITUS SG-SD MAX SECURITY
WHI	TANKLESS GAS WATER HEATER INTAKE VENT	JANITOR ROOM EXTERIOR WALL	AS REQUIRED FOR 3"Ø DUCT	INTAKE VENT FLUSH WITH EXTERIOR WALL (WITH INSECT SCREEN)
WHE	TANKLESS GAS WATER HEATER EXHAUST VENT	JANITOR ROOM EXTERIOR WALL	AS REQUIRED FOR 3"Ø DUCT	EXHAUST VENT FLUSH WITH EXTERIOR WALL (WITH INSECT SCREEN)
UH-1 & UH-2	NATURAL GAS UNIT HEATERS	MECH ROOM & JANITOR ROOM	2,000 BTU/HR WITH INTERNAL THERMOSTAT	MODINE OR COMFORT ZONE
EF-1	EXHAUST FAN	WAITING AREA	12" PROP DIA. 1/4 HP, 120V, 3.1A, 1750 RPM	DIRECT-DRIVE VENTURI, WITHOUT INTAKE GUARDS DAYTON 10D971
SV-1	SOFFIT VENT GRILL	WAITING AREA	10" X 12"	TITUS SG-SD MAX SECURITY



SEQUENCE OF OPERATION:

GENERAL CONTROLS:

THE WAITING AREA THERMOSTAT (T) SHALL BE EQUIPPED WITH A MULTIPLE SET POINT CLOCK THERMOSTAT WITH A MANUAL ON/OFF OVERRIDE SWITCH.

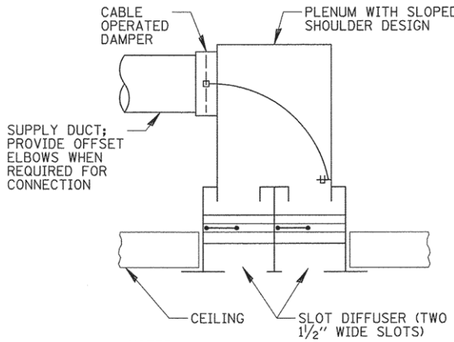
SET POINTS:

WINTER HEATING - THE WAITING AREA TEMPERATURE SHALL BE MAINTAINED AT 78° F DURING STATION HOURS OF OPERATION AND 55° F DURING AFTER HOURS (OR AS SET BACK FOR OPERATIONAL PURPOSES). THE THERMOSTAT SHALL BE CALIBRATED SO THAT THE WAITING AREA DOES NOT DROP BELOW 55° F.

CONTROL DIAGRAM

N.T.S.

AREA SCHEDULE	
ROOM DESCRIPTION	AREA
JANITOR ROOM	24 SQ. FT.
MECHANICAL ROOM	36 SQ. FT.
WAITING AREA	630 SQ. FT.

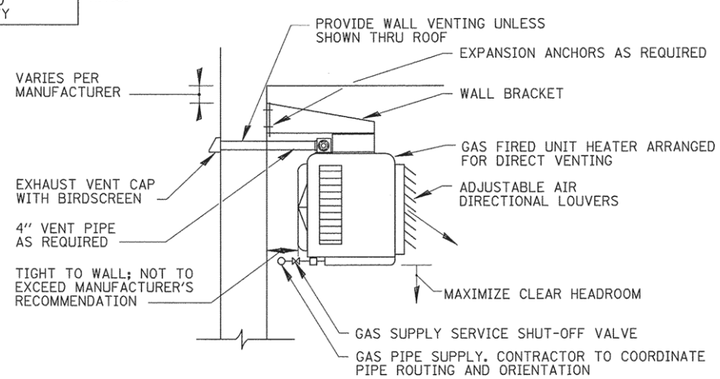


NOTES:

1. SLOT DIFFUSERS TO BE JET THROW TYPE.
2. PROVIDE PLENUM AS REQUIRED FOR SLOT DIFFUSER INCLUDING NECESSARY CLIPS & SUPPORT HANGERS FOR PLENUM & SLOT DIFFUSER FOR CEILING ATTACHMENT.
3. PLENUM TO BE PROVIDED WITH VOLUME DAMPER IN INLET COLLAR.

SLOT DIFFUSER / VOLUME DAMPER DETAIL

N.T.S.

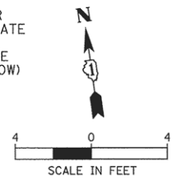


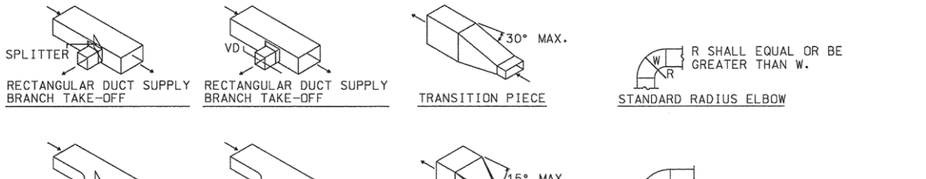
NATURAL GAS UNIT HEATER

N.T.S.

MECHANICAL SYMBOLS LIST

Ⓣ	THERMOSTAT		SUPPLY DUCT
10x15	DUCT WITH DIMENSIONS		RETURN DUCT
	ROUND TO RECTANGULAR DUCT TRANSITION		RETURN REGISTER WITH RETURN AIR FLOW SHOWN
—G—	GAS PIPING	100 CFM	DIRECTION OF AIR FLOW WITH MINIMUM SUPPLY CFM SHOWN
	GAS SHUT-OFF COCK	Ø	ROUND
	UNION		VOLUME DAMPER
	CONNECT OUT OF TOP		FIRE DAMPER
	CONNECT OUT OF BOTTOM		SLOT DIFFUSER





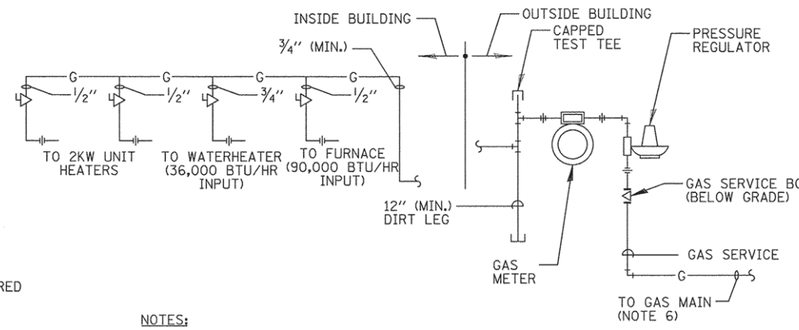
NOTES:

1. PROVIDE STANDARD RADIUS ELBOWS WHEN POSSIBLE - SHORT RADIUS WHERE REQUIRED.
2. ALL SHORT RADIUS ELBOWS SHALL HAVE VANES. VANES SHALL BE CONSTRUCTED, SUPPORTED & FASTENED AS RECOMMENDED BY SMACNA.
3. NO SQUARE OR RECTANGULAR HEEL ELBOWS SHALL BE ALLOWED.

NOTE:

1. IF R IS LESS THAN W, THEN FULL ARC TURNING VANE(S) SHALL BE PROVIDED. SEE SCHEDULE BELOW.
2. INSIDE BEND MAY BE SQUARE FOR W ℄ 12", NO SQUARE HEELS PERMITTED.

VANE SCHEDULE	
WIDTH	NO. OF VANES
< 12"	1
12"-24"	2
24"-36"	3
36"-60"	4
60"-84"	5
℄ 84"	6



NOTES:

1. ALL NATURAL GAS FUEL PIPING REQUIRED FOR THE INSTALLATION OF THE WORK SHALL BE IN ACCORDANCE WITH APPLICABLE PROVISIONS OF NFPA.
2. ALL PIPING, TUBING, FITTING AND VALVES USED IN THE PIPING INSTALLATION SHALL BE SUITABLE FOR 125 PSIG WORKING PRESSURE.
3. CAST IRON PIPING AND FITTINGS ARE NOT PERMITTED.
4. FLEXIBLE CONNECTORS SHALL BE USED TO ISOLATE HARMFUL VIBRATIONS FROM THE PIPING INSTALLATION WHERE NEEDED.
5. THE PIPING INSTALLATION SHALL BE TESTED AFTER ASSEMBLY AND PROVEN FREE FROM LEAKS.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL COORDINATION REQUIRED TO OBTAIN GAS SERVICE FROM NATURAL GAS UTILITY COMPANY AND CONNECTION TO THE EXISTING GAS MAIN INCLUDING ASSOCIATED METERING DEVICES.
7. GAS METER & REGULATOR BY LOCAL GAS COMPANY.

NATURAL GAS PIPING DETAIL

N.T.S.

VILLAGE OF MAYWOOD
40 MADISON STREET
MAYWOOD, IL 60153

USER NAME = mmichalowicz	DESIGNED - GAH	REVISED -	
	DRAWN - DRK	REVISED -	
PLOT SCALE = 4'	CHECKED - JPC	REVISED -	
PLOT DATE = 1/22/2016	DATE - 01/25/16	REVISED -	

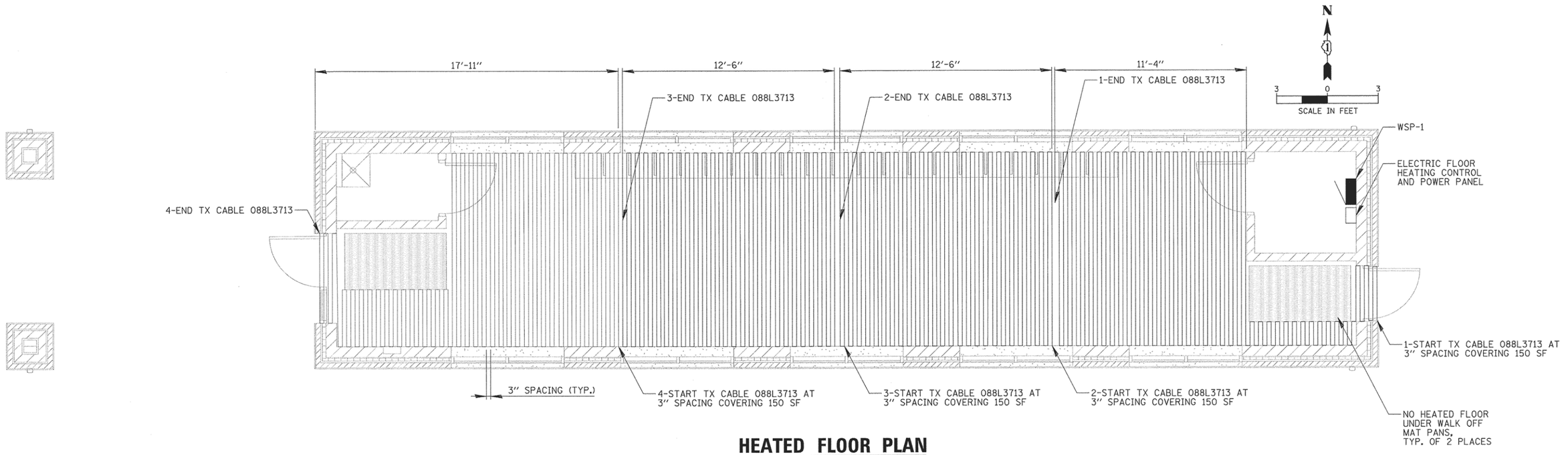
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAYWOOD METRA STATION
MECHANICAL PLAN

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-00136-00-RR	COOK	65	53
		CONTRACT NO. 61C74		
	ILLINOIS FED. AID PROJECT			

FILE NAME = N:\MAYWOOD\13012B\Maywood-DPW\1234M101.dgn



HEATED FLOOR PLAN

SCALE: AS SHOWN

NOTE:

SEE ELECTRICAL HEATED FLOOR NOTES AND MECHANICAL DETAILS

VILLAGE OF MAYWOOD 40 MADISON STREET MAYWOOD, IL 60153	USER NAME = mmichalowicz	DESIGNED - GAH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAYWOOD METRA STATION HEATED FLOOR PLAN
		DRAWN - DRK	REVISED -		
	PLOT SCALE = 3'	CHECKED - JPC	REVISED -		
	PLOT DATE = 1/22/2016	DATE - 01/25/16	REVISED -		SCALE: $SCALE$ SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-00136-00-RR	COOK	65	54
		CONTRACT NO. 61C74		
	ILLINOIS	FED. AID PROJECT		

FILE NAME = N:\MAYWOOD\130128\Maywood-UPW\1234M80I.dgn

LEGEND

START	Start of TX Cable
END	End of TX Cable
T	Thermostat
→	Direction of TX Cable
(	Rotation of TX Cable
⌐¬	Loose Cable

DRAWING LIST

SPECIFICATION

1. General
Supply and install a complete system comprised of heating cables, accessories, and controls.

2. Material
2.1. Shall be Danfoss TX dual conductor heating cable.

2.2. Conductor: Copper or copper alloy, with tin-nickel coating.

2.3. Insulation: FEP Dupont insulation with an average thickness not less than 0.25mm and than layer of XLPE.

2.4. Shield: Tin coated drain wire combined with 0.050mm aluminum foil coated with 0.012mm PBT, 100% COVERAGE.

2.5. Jacket: PVC with an average thickness not less that 0.75mm.

2.6. Shall include 10' cold lead, single point connection.

2.7. Rated temperature: 220°F (105°C), maximum voltage 600V ac, up to 9W/ft

2.8. Shall be approved to applicable UL and CSA standards.

3. System Controls
3.1. The system temperature shall be controlled by a Danfoss thermostat with floor or air sensor, or combination of both.
3.2. The thermostat shall incorporate an integral 5mA Class A Ground Fault Circuit Interrupter (GFCI), temperature set-back option to reduce energy consumption, and a digital readout.
3.3. Shall be approved to applicable UL and CSA standards.

4. Execution
4.1. Installation
a. System must be installed per manufacture's recommendation using the method described in the installation guide.
b. Place the heating cables and sensors in the surface material as per the installation guide.
c. Inspect the cable and controls upon receiving the shipment. Note any damage and ensure materials received match the order and shipping documents.

4.2. Tests
a. Refer to the manufacturer's literature for requirements for testing and documenting cable resistance and insulation-to-ground readings.
b. Take test as outlined in the installation Manual.
c. If problems are discovered, consult the manufacturer.
d. If unable to correct problems notify the engineer before proceeding with the installation.
e. Keep a record of all readings for inspection by the engineer or for submittal to the manufacturer to ensure a valid warranty.

5. Warranty
5.1. Manufacturer shall offer 20-years, non-prorated warranty.

REFER TO NOTE 18 THIS SHEET

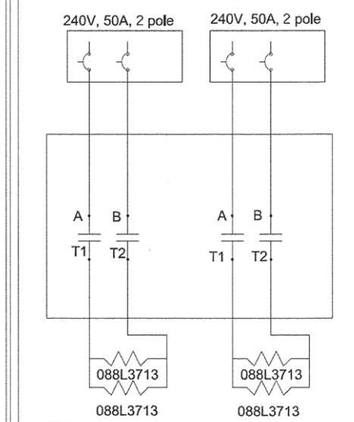
1. Date:
Issued:
Project:
Drawing Title: TX Typical Installation

6711 Mississauga Rd, Suite 306
Toronto, ON, L5N 2W3
Toll Free: 1-866-696-0962 ext 711 Fax: 1 (905) 285-2055
www.NA.HeatingDanfoss.com

The Contractor shall verify all job site dimensions all drawing, details & specifications.
The Contractor shall report any discrepancies, in writing to Danfoss prior to commencing with any work.

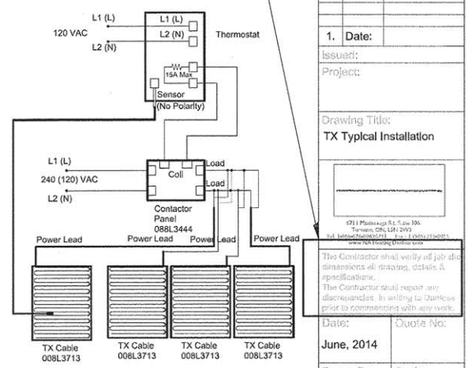
Date: June, 2014
Quote No:
Drawn By:
Scale: N.T.S.
Drawing No: TX-1

100A Contactor Panel , GFEP



Detail:1 TX-3 — Wiring Diagram for Danfoss Contactor Panels and TX cable 088L3713

REFER TO NOTE 18 THIS SHEET



Detail:2 TX-3 — Wiring Diagram for Danfoss Thermostat Load Greater than 15 Amps

1. Date:
Issued:
Project:
Drawing Title: TX Typical Installation

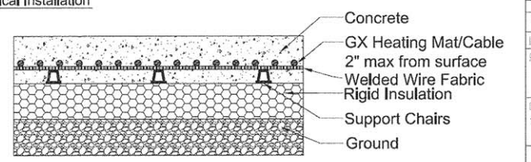
6711 Mississauga Rd, Suite 306
Toronto, ON, L5N 2W3
Toll Free: 1-866-696-0962 ext 711 Fax: 1 (905) 285-2055
www.NA.HeatingDanfoss.com

The Contractor shall verify all job site dimensions all drawing, details & specifications.
The Contractor shall report any discrepancies, in writing to Danfoss prior to commencing with any work.

Date: June, 2014
Quote No:
Drawn By:
Scale: N.T.S.
Drawing No: TX-3

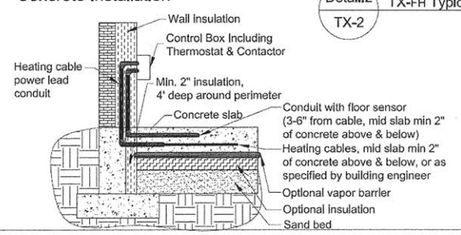
Directly on concrete:

Detail:1 TX-2 — TX-FH Typical Installation



Concrete Installation

Detail:2 TX-2 — TX-FH Typical Installation



1. Date:
Issued:
Project:
Drawing Title: TX Typical Installation

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Toronto, ON, L5N 2W3
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www.NA.HeatingDanfoss.com

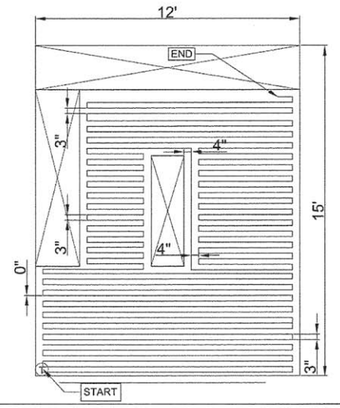
The Contractor shall verify all job site dimensions all drawing, details & specifications.
The Contractor shall report any discrepancies, in writing to Danfoss prior to commencing with any work.

Date: June, 2014
Quote No:
Drawn By:
Scale: N.T.S.
Drawing No: TX-2

REFER TO NOTE 18 THIS SHEET

Note: Cable to be spaced @ 3" spacing to achieve 17 W/SF.

Detail:1 TX-4 — TX-FH Cable Layout (@3" spacing)



1. Date:
Issued:
Project:
Drawing Title: TX Typical Installation

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Toronto, ON, L5N 2W3
Toll Free: 1-866-696-0962 ext 711 Fax: 1 (905) 285-2055
www.NA.HeatingDanfoss.com

The Contractor shall verify all job site dimensions all drawing, details & specifications.
The Contractor shall report any discrepancies, in writing to Danfoss prior to commencing with any work.

Date: June, 2014
Quote No:
Drawn By:
Scale: N.T.S.
Drawing No: TX-4

REFER TO NOTE 18 THIS SHEET

NOTES

1. CONTRACT DRAWINGS ARE CONCEPTUAL IN NATURE AND ARE NOT INTENDED TO BE REPRESENTATIVE OF EXACT QUANTITIES OF WORK TO BE PERFORM.
2. THE CONTRACT DRAWINGS ARE NOT INTENDED TO SHOW EVERY AND ALL DETAILS OF WORK TO BE PERFORMED OR EQUIPMENT TO BE SUPPLIED. THE INTENT OF THE CONTRACT DRAWINGS IS TO ILLUSTRATE THE CONCEPTUAL DESIGN AND LAYOUT. THE CONTRACTOR SHALL BE KNOWLEDGEABLE AND REGULARLY ENGAGED IN THE TYPE OF WORK DESCRIBED BY THESE CONTRACT DRAWINGS, AND SHALL BE RESPONSIBLE FOR UNDERSTANDING THEIR INTENT. ANY WORK TO BE PERFORMED OR ITEM OF EQUIPMENT TO BE SUPPLIED WHICH IS NOT SPECIFICALLY CALLED FOR BY THESE CONTRACT DRAWINGS BUT WHICH IS NECESSARY TO PROVIDE A COMPLETE AND SUCCESSFUL WORKING SYSTEM SHALL BE INCLUDED IN THE CONTRACTOR'S SCOPE OF WORK AT NO ADDITIONAL COST TO THE OWNER.
3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ALL MATERIAL QUANTITIES AND APPRAISE HIMSELF/HERSELF OF ALL CONDITIONS. THE CONTRACT PRICE SUBMITTED BY THE CONTRACTOR SHALL BE CONSIDERED AS THE TOTAL COST FOR THE COMPLETE PROJECT. NO CLAIMS FOR EXTRA WORK WILL BE RECOGNIZED DUE TO THE CONTRACTOR'S FAILURE TO UNDERSTAND THE SCOPE OF WORK.
4. WHEN NECESSARY TO PERFORM WORK ADJACENT TO EXISTING UTILITIES THE CONTRACTOR SHALL PROVIDE ALL NECESSARY PROTECTION FOR EXISTING UTILITIES IN CONFORMANCE WITH THE AFFECTED UTILITY COMPANIES REQUIREMENTS AS MAY BE REQUIRED TO PERFORM THE WORK OF THIS CONTRACT.
5. ORIENTATION OF PIPING, CONDUITS, DUCTWORK, EQUIPMENT, ETC. MAY VARY. CONTRACTOR TO COORDINATE AS REQUIRED. CONTRACTOR TO COORDINATE WITH OTHER TRADES AS REQUIRED, AND OTHER ARCHITECTURAL AND STRUCTURAL FEATURES.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEANS AND METHODS AND TECHNIQUES OF CONSTRUCTION. OWNER'S REPRESENTATIVE/ ENGINEER'S REVIEW OF SAME DOES NOT RELIEVE CONTRACTOR OF THIS RESPONSIBILITY. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR SAFETY AND JOB SITE SAFETY.
7. IT IS THE INTENT OF THESE CONTRACT DRAWINGS TO INCLUDE ALL ITEMS REQUIRED FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK, READY FOR OCCUPANCY AND OPERATION BY THE OWNER.
8. ALL CONTRACTORS SHALL EXAMINE THE CONTRACT DRAWINGS AND VISIT THE SITE TO DETERMINE THE FULL EXTENT OF THE WORK REQUIRED. NO ADDITIONAL COMPENSATION WILL BE ALLOWED DUE TO THE CONTRACTOR'S MISUNDERSTANDING OF THE SCOPE OF WORK.
9. PRIOR TO BEGINNING ANY LAY-OUT WORK, ALL CONTRACTORS MUST CONFIRM WALL LOCATIONS, THICKNESS, PENETRATIONS AND ANY OTHER RELATED DETAILS WITH STRUCTURAL AND ARCHITECTURAL DRAWINGS. NO CLAIMS FOR ADDITIONAL COSTS WILL BE PAID DUE TO INCORRECT ROUGH-IN OR LAY-OUT LOCATIONS.
10. ALL WORK SHALL STRICTLY FOLLOW ALL APPLICABLE CODES AND BUILDING STANDARDS.
11. EACH CONTRACTOR SHALL COORDINATE THEIR WORK WITH THAT OF ALL OTHERS TRADES INVOLVED.
12. ALL DUCT CONSTRUCTION AND INSTALLATION SHALL CONFORM TO THE LATEST EDITION OF SMACNA CONSTRUCTION STANDARDS.
13. CONTRACTOR SHALL CUT, PATCH, REPAIR AND/OR PAINT ALL OPENINGS, TO MATCH SUBSTRATE AND FINISH AS REQUIRED TO COMPLETE THE WORK.
14. CONTRACTOR SHALL BE RESPONSIBLE FOR RELOCATION OF ANY MINOR INTERFERENCES, INCLUDING CONDUIT, HANGERS, ETC. AT NO ADDITIONAL COST.
15. PROVIDE FINAL CONNECTIONS TO EQUIPMENT PER MANUFACTURERS SHOP DRAWINGS AND RECOMMENDATIONS.
16. PROVIDE ACCESS DOORS FOR ALL MANUAL DAMPERS AND FIRE DAMPERS.
17. CONTRACTOR SHALL MAINTAIN THE FIRE RATING OR SMOKE BARRIERS OF ALL WALLS, FLOORS AND CEILING PENETRATED DUE TO THEIR WORK. PENETRATIONS SHALL MEET UL APPROVED CLOSURE SYSTEM.
18. THE CONTRACTOR SHALL VERIFY ALL JOB SITE DIMENSIONS, ALL DRAWING DETAILS AND SPECIFICATIONS. THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES IN WRITING TO DANFOSS PRIOR TO COMMENCING WITH ANY WORK.

VILLAGE OF MAYWOOD
40 MADISON STREET
MAYWOOD, IL 60153

USER NAME = mmichalowicz	DESIGNED - GAH	REVISED -	
	DRAWN - DRK	REVISED -	
PLOT SCALE = 1'	CHECKED - JPC	REVISED -	
PLOT DATE = 1/22/2016	DATE - 01/25/16	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAYWOOD METRA STATION
HEATED FLOOR NOTES AND MECHANICAL DETAILS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-00136-00-RR	COOK	65	55
		CONTRACT NO. 61C74		
	ILLINOIS FED. AID PROJECT			

FILE NAME = N:\MAYWOOD\130128\Maywood-UPW\123446602.dgn

PLUMBING GENERAL NOTES

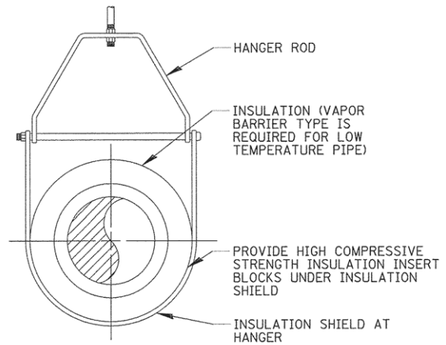
1. CONTRACT DRAWINGS ARE CONCEPTUAL IN NATURE AND ARE NOT INTENDED TO BE REPRESENTATIVE OF EXACT QUANTITIES OF WORK TO BE PERFORM.
2. THE CONTRACT DRAWINGS ARE NOT INTENDED TO SHOW EVERY AND ALL DETAILS OF WORK TO BE PERFORMED OR EQUIPMENT TO BE SUPPLIED. THE INTENT OF THE CONTRACT DRAWINGS IS TO ILLUSTRATE THE CONCEPTUAL DESIGN AND LAYOUT. THE CONTRACTOR SHALL BE KNOWLEDGEABLE AND REGULARLY ENGAGED IN THE TYPE OF WORK DESCRIBED BY THESE CONTRACT DRAWINGS, AND SHALL BE RESPONSIBLE FOR UNDERSTANDING THEIR INTENT. ANY WORK TO BE PERFORMED OR ITEM OF EQUIPMENT TO BE SUPPLIED WHICH IS NOT SPECIFICALLY CALLED FOR BY THESE CONTRACT DRAWINGS BUT WHICH IS NECESSARY TO PROVIDE A COMPLETE AND SUCCESSFUL WORKING SYSTEM SHALL BE INCLUDED IN THE CONTRACTOR'S SCOPE OF WORK AT NO ADDITIONAL COST TO THE OWNER.
3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ALL MATERIAL QUANTITIES AND APPRAISE HIMSELF/HERSELF OF ALL CONDITIONS. THE CONTRACT PRICE SUBMITTED BY THE CONTRACTOR SHALL BE CONSIDERED AS THE TOTAL COST FOR THE COMPLETE PROJECT. NO CLAIMS FOR EXTRA WORK WILL BE RECOGNIZED DUE TO THE CONTRACTOR'S FAILURE TO UNDERSTAND THE SCOPE OF WORK.
4. WHEN NECESSARY TO PERFORM WORK ADJACENT TO EXISTING UTILITIES THE CONTRACTOR SHALL PROVIDE ALL NECESSARY PROTECTION FOR EXISTING UTILITIES IN CONFORMANCE WITH THE AFFECTED UTILITY COMPANIES REQUIREMENTS AS MAY BE REQUIRED TO PERFORM THE WORK OF THIS CONTRACT.
5. ORIENTATION OF PIPING, CONDUITS, DUCTWORK, EQUIPMENT, ETC. MAY VARY. CONTRACTOR TO COORDINATE AS REQUIRED. CONTRACTOR TO COORDINATE WITH OTHER TRADES AS REQUIRED, AND OTHER ARCHITECTURAL AND STRUCTURAL FEATURES.
6. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR JOB SITE SAFETY AS WELL WAS SUPERVISION/DIRECTION AND MEANS/METHODS OF CONSTRUCTION.
7. PRIOR TO BEGINNING ANY LAY-OUT WORK, ALL CONTRACTORS MUST CONFIRM WALL LOCATIONS, THICKNESS, PENETRATIONS AND ANY OTHER RELATED DETAILS WITH STRUCTURAL AND ARCHITECTURAL DRAWINGS. NO CLAIMS FOR ADDITIONAL COSTS WILL BE PAID DUE TO INCORRECT ROUGH-IN OR LAY-OUT LOCATIONS.
8. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE BOCA/ICC CODE AND VILLAGE OF MAYWOOD BUILDING CODE/ MUNICIPAL ORDINANCES.
9. CONTRACTOR SHALL CUT, PATCH, REPAIR AND/OR PAINT ALL OPENINGS, TO MATCH SUBSTRATE AND FINISH AS REQUIRED TO COMPLETE THE WORK.
10. PROVIDE FINAL CONNECTIONS TO EQUIPMENT PER MANUFACTURERS SHOP DRAWINGS AND RECOMMENDATIONS.
11. INVERT ELEVATIONS FOR SANITARY SEWERS ARE USGS ELEVATIONS (UNLESS OTHERWISE SPECIFIED).
12. MINIMUM SLOPE OF SANITARY DRAIN PIPING INSIDE BUILDING SHALL NOT BE LESS THAN $\frac{1}{8}$" PER FT (FOR 3"-6" PIPES) AND LESS THAN $\frac{1}{4}$" PER FT (FOR $2\frac{1}{2}$" AND SMALLER PIPES).
13. CONTRACTOR TO PROVIDE ALL FITTINGS, CONNECTORS AND TRANSITION COUPLINGS FOR PIPING AS REQUIRED. CONTRACTOR SHALL PROVIDE ALL NECESSARY BRACING, BLOCKING AND MOUNTING PLATES FOR ALL WALL MOUNTED PLUMBING FIXTURES.
14. ALL DOMESTIC WATER PIPING TO BE INSULATED.
15. CONTRACTOR TO CONNECT BACKFLOW PREVENTER'S RELIEF VALVE TO NEAREST FLOOR DRAIN.
16. ALL FAUCETS SHALL BE OF THE SELF CLOSING TYPE AND PLUMBING FIXTURES SHALL MEET ADA STANDARDS.
17. PROVIDE AND INSTALL WATER METER PER VILLAGE REQUIREMENTS. ALSO PROVIDE VILLAGE APPROVED READ-OUT DIAL OR METER READING DEVICE OUTSIDE THE BUILDING.
18. CONTRACTOR SHALL SLOPE FLOORS TO DRAIN TO FLOOR DRAINS. FLOOR DRAINS SHALL BE INDIVIDUALLY VENTED.
19. BELOW GRADE WASTE PIPING SHALL BE CAST IRON. ABOVE GRADE VENT PIPING SHALL BE PVC.
20. WATER SUPPLY PIPING (HOT & COLD) SHALL BE TYPE "L" COPPER INSIDE THE BUILDING & TYPE "K" COPPER FOR BURIED SERVICE.
21. SEE ARCHITECTURAL PLANS FOR INSTALLATION DETAILS FOR ADDITIONAL ACCESSORIES, ETC.
22. SEE DIVISION OF WORK FOR PROPOSED IMPROVEMENTS.

PLUMBING ABBREVIATIONS

BOP	BOTTOM OF PIPE	MH	MANHOLE
CI	CAST IRON	SAN	SANITARY
CW	COLD WATER	V	VENT
DS	DOWNSPOUT	VTR	VENT THRU ROOF
FCO	FLOOR CLEAN OUT	W	WASTE
FD	FLOOR DRAIN	W/	WITH
-H	HANDICAP	WC	WATER CLOSET
HW	HOT WATER	WCO	WALL CLEAN OUT
LAV	LAVATORY	YCO	YARD CLEAN OUT
		HB	HOSE BIBBS

PLUMBING SYMBOLS LIST

- BURIED C.I. SANITARY DRAIN LINE (SEE SANITARY PLUMBING PLAN)
- VENT PIPING
- COLD WATER SUPPLY (SEE WATER PIPING PLAN)
- HOT WATER SUPPLY (SEE WATER PIPING PLAN)
- RECIRCULATION WATER PIPING (SEE WATER PIPING PLAN)
- FD — FLOOR DRAIN
- FCO — FLOOR CLEAN OUT
- UNION
- WATER METER
- PIPE ELBOW TURNED DOWN
- PIPE ELBOW TURNED UP
- GATE VALVE
- CHECK VALVE
- BACKFLOW PREVENTER ASSEMBLY
- P-TRAP
- HOSE BIBB



TYPICAL PIPE HANGERS

N.T.S.

PLUMBING FIXTURE SCHEDULE

SYMBOL	FIXTURE	DESCRIPTION
MOP SINK	MECH ROOM MOP SINK	FIAT MOLDED STONE MOP SERVICE BASIN MSB-2424 WITH WALL MOUNTED SERVICE FAUCET (830 AA), MOP BRACKET (889 CC), STAINLESS STEEL STRAINER (1453 BB), QUICK DRAIN TO CONNECT TO 3" CAST IRON PIPE, AND HOSE & BRACKET (832 AA)
FD	FLOOR DRAIN	J.R. SMITH #2010C, CAST IRON FLOOR DRAIN WITH NICKEL BRONZE STRAINER, 4" OUTLET AND VANDALPROOF SCREWS
CO	FLOOR CLEANOUT	J.R. SMITH #4020 ROUND CLEANOUT WITH TWIS-TO-FLOOR ADJUSTABLE TOP, NICKEL BRONZE FINISH AND VANDALPROOF SCREWS
WM	WATER METER	NEPTUNE T-10 WATER METER (OR AS REQUIRED BY LOCAL MUNICIPALITY) AND APPROVED READ-OUT DIAL OR METER READING DEVICE OUTSIDE THE BUILDING
BFP	BACKFLOW PREVENTER	AS REQUIRED BY LOCAL MUNICIPALITY
HB	HOSE BIBB	NON-FREEZE $\frac{3}{4}$" HOSE CONNECTION, WITH INTEGRAL VACUUM BREAKER, ENCLOSED IN A CAST BRONZE BOX WITH HINGE COVER AND TAMPER RESISTANT KEY
WH	TANKLESS WATER HEATER	RHEEM RTGH95DVN TANKLESS GAS WATER HEATER

VILLAGE OF MAYWOOD
40 MADISON STREET
MAYWOOD, IL 60153

USER NAME = mmichalowicz	DESIGNED - GAH	REVISED -		
	DRAWN - DRK	REVISED -		
PLOT SCALE = 1'	CHECKED - JPC	REVISED -		
PLOT DATE = 2/19/2016	DATE - 01/25/16	REVISED -		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAYWOOD METRA STATION
PLUMBING DIAGRAMS, SYMBOLS, ABBREVIATIONS, AND DETAILS
SCALE: *SCALE* | SHEET OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-00136-00-RR	COOK	65	56
		CONTRACT NO. 61C74		
	ILLINOIS FED. AID PROJECT			

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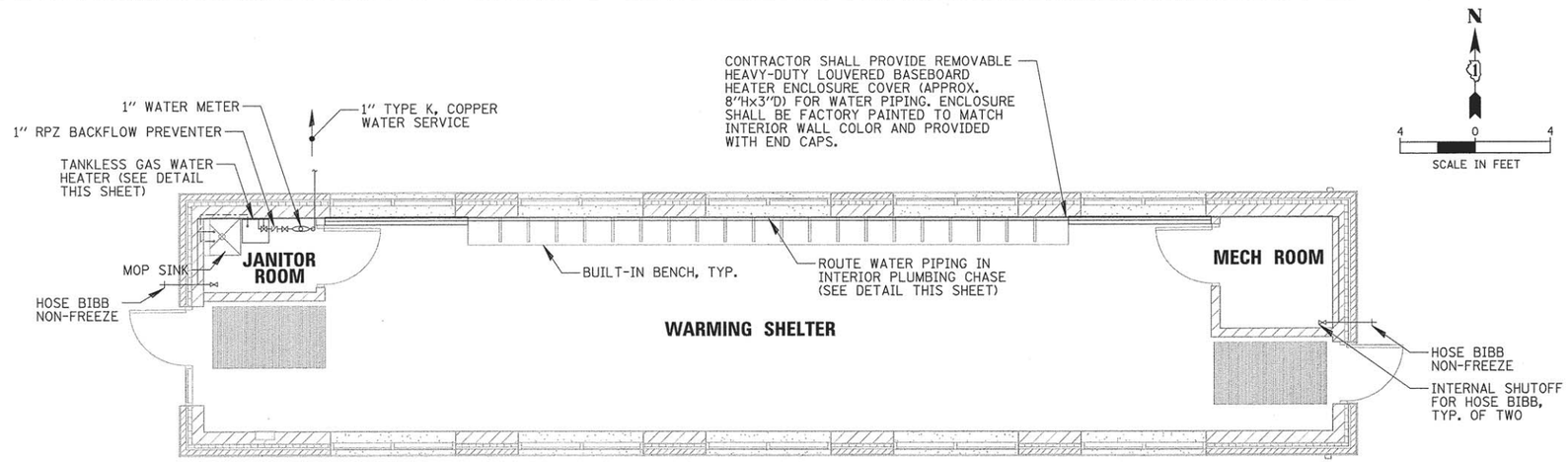
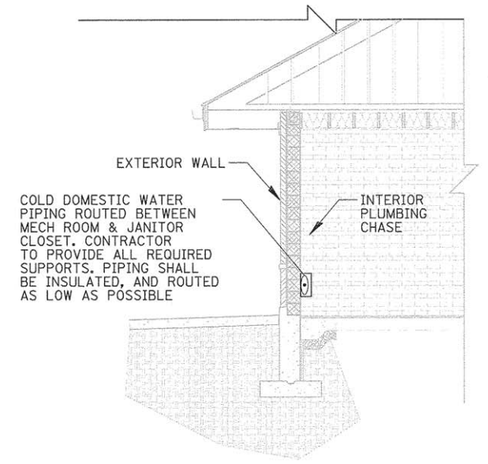
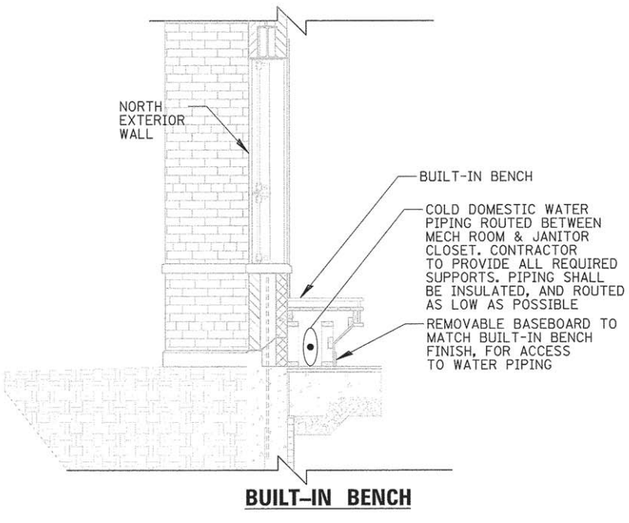


WARMING SHELTER DOMESTIC WATER PIPING PLAN

SCALE: AS SHOWN



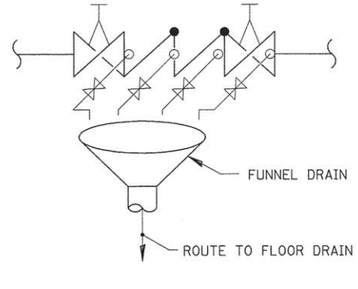
INTERIOR PLUMBING CHASE

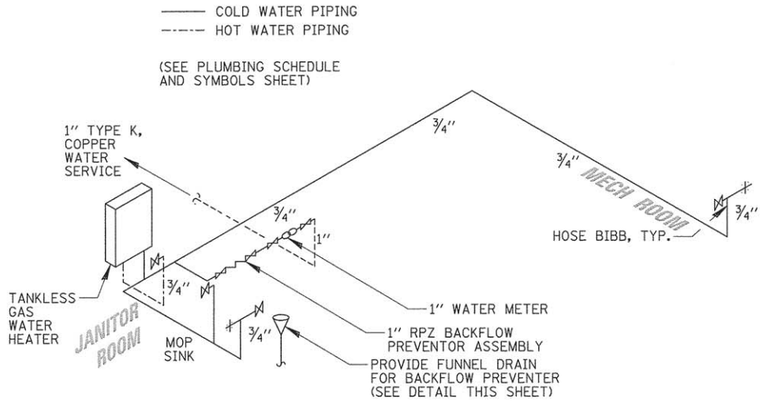


BUILT-IN BENCH

PIPE CHASE SECTION DETAIL

N.T.S.





WATER SUPPLY DIAGRAM

N.T.S.

TANKLESS GAS WATER HEATER

N.T.S.

BACKFLOW PREVENTER DRAIN DETAIL

N.T.S.

VILLAGE OF MAYWOOD 40 MADISON STREET MAYWOOD, IL 60153	USER NAME = mmichalowicz	DESIGNED - GAH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAYWOOD METRA STATION BUILDING WATER PIPING PLAN
		DRAWN - DRK	REVISED -		
	PLOT SCALE = 4'	CHECKED - JPC	REVISED -		
	PLOT DATE = 1/22/2016	DATE - 01/25/16	REVISED -		SCALE: $SCALE$ SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-00136-00-RR	COOK	65	57
		CONTRACT NO. 61C74		
		ILLINOIS FED. AID PROJECT		

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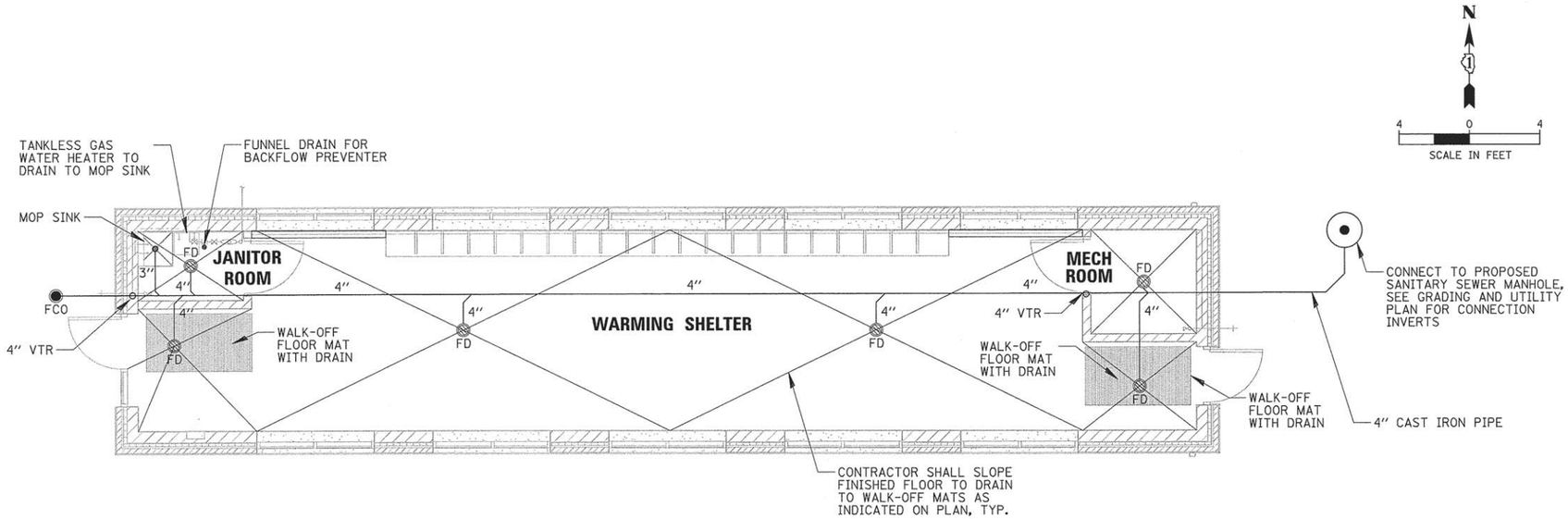
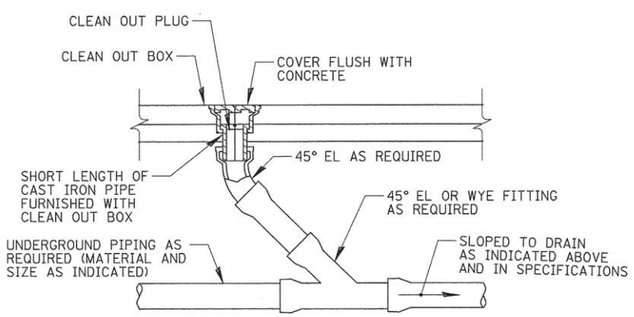


WARMING SHELTER PIPING PLUMBING PLAN

SCALE: AS SHOWN

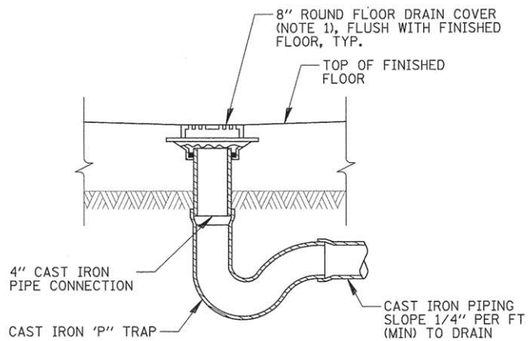


NOTE:

CONTRACTOR TO COORDINATE LOCATION(S) AND ORIENTATION(S) AS REQUIRED.

TYPICAL CLEAN OUT DETAIL

N.T.S.

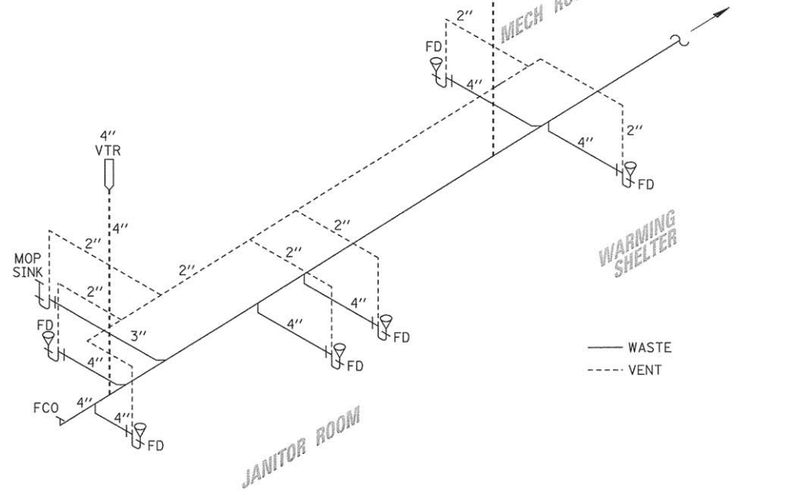


NOTES:

1. CONTRACTOR SHALL PROVIDE A SQUARE FLOOR DRAIN STRAINER, IN TILED AREAS, OR AS INDICATED BY OWNER'S REPRESENTATIVE.

TYPICAL FLOOR DRAIN DETAIL

N.T.S.



ISOMETRIC SANITARY PLUMBING DIAGRAM

N.T.S.

VILLAGE OF MAYWOOD 40 MADISON STREET MAYWOOD, IL 60153	USER NAME = mmichalowicz	DESIGNED - GAH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAYWOOD METRA STATION SANITARY PLUMBING PLAN	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - DRK	REVISED -				13-00136-00-RR	COOK	65	58
	PLOT SCALE = 4'	CHECKED - JPC	REVISED -					CONTRACT NO. 61C74		
	PLOT DATE = 1/22/2016	DATE - 01/25/16	REVISED -		SCALE: $SCALE$ SHEET OF SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT		

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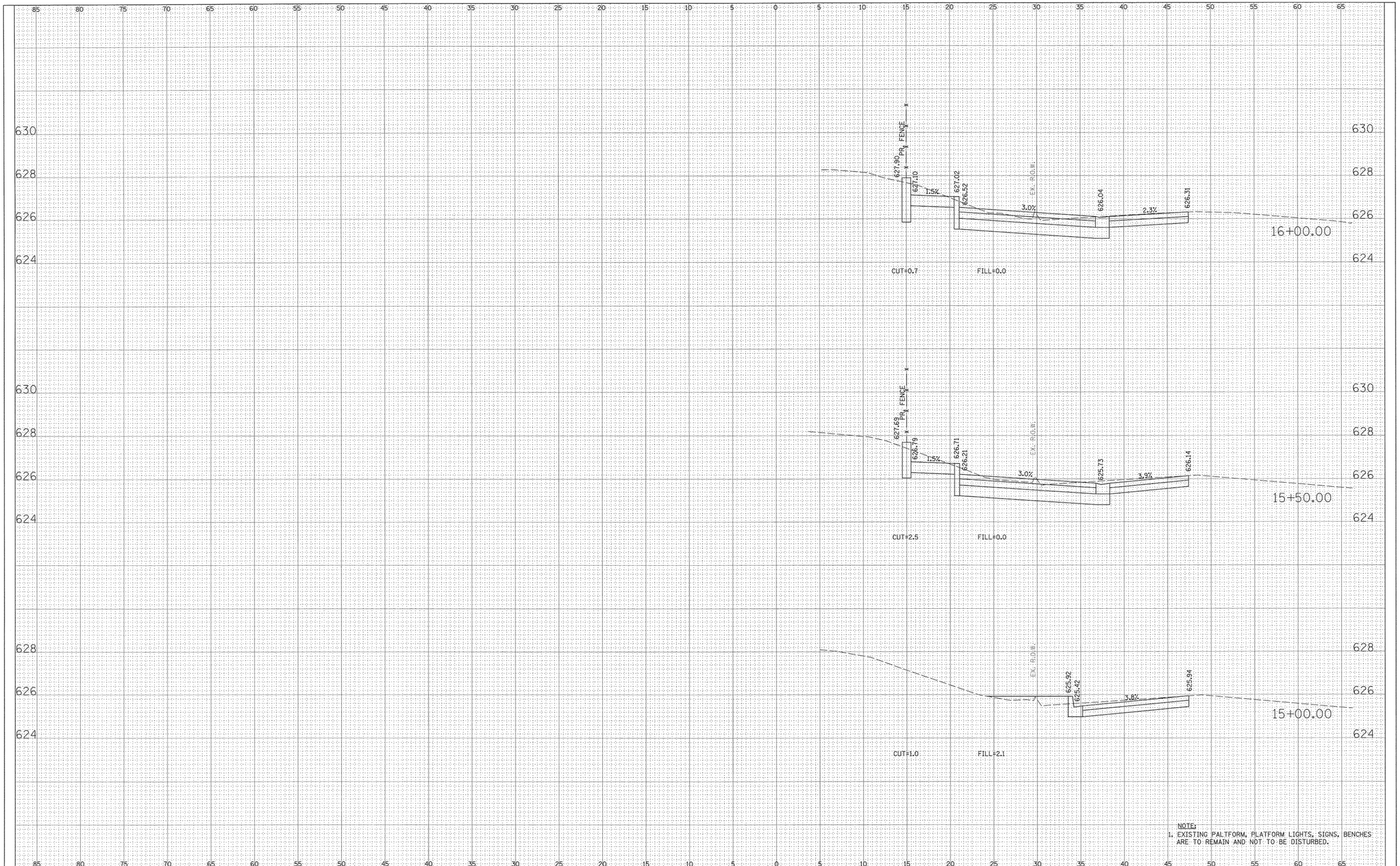


NOTE:
1. EXISTING PALTFORM, PLATFORM LIGHTS, SIGNS, BENCHES ARE TO REMAIN AND NOT TO BE DISTURBED.

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

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

VILLAGE OF MAYWOOD
40 MADISON STREET
MAYWOOD, IL 60153

USER NAME = mmicholowicz	DESIGNED - MBT	REVISED -	
	DRAWN - MBT	REVISED -	
PLOT SCALE = 5'	CHECKED - MEK	REVISED -	
PLOT DATE = 1/22/2016	DATE - 01/25/16	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAYWOOD METRA STATION
CROSS SECTIONS

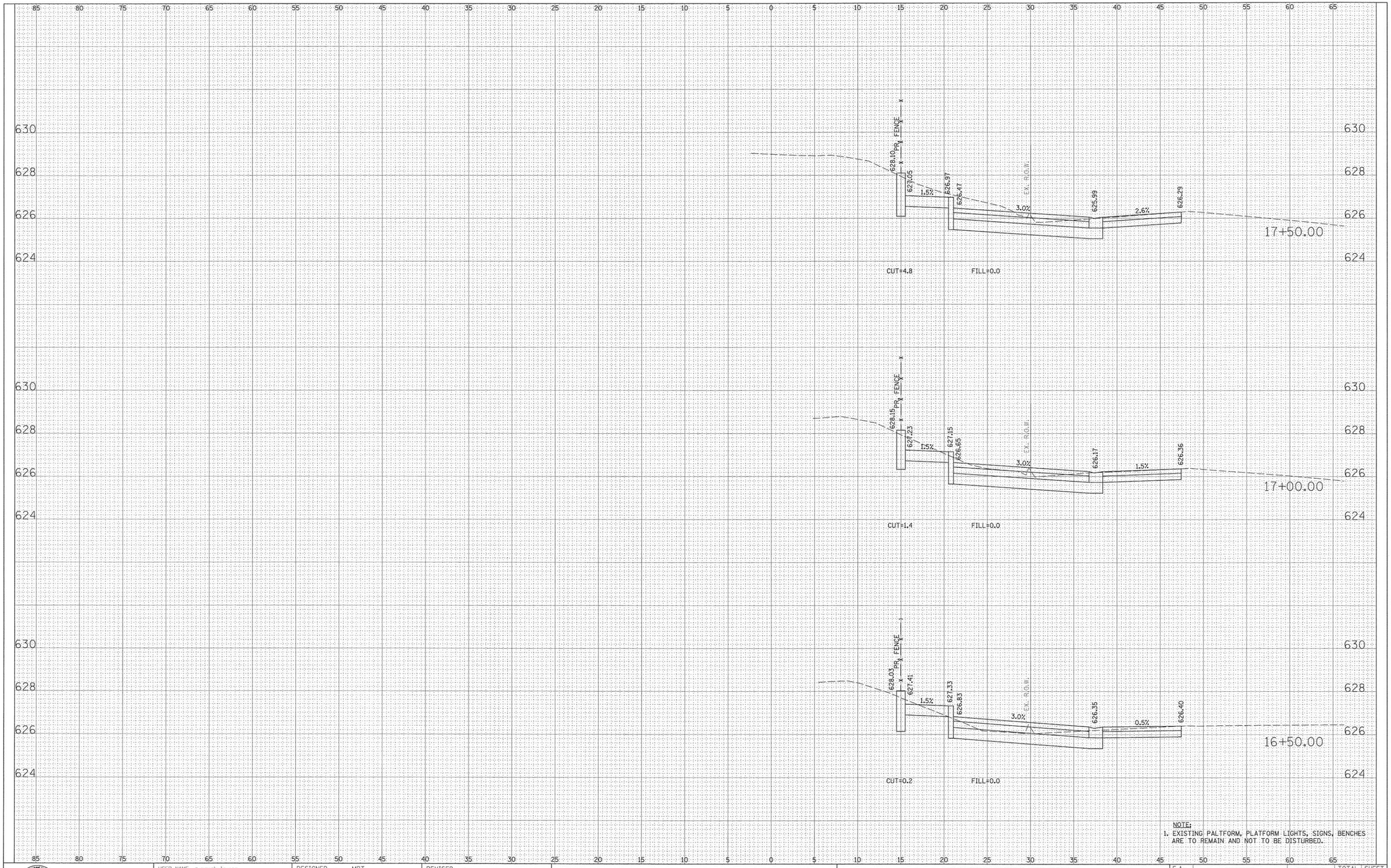
SCALE: | SHEET OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-00136-00-RR	COOK	65	59
		CONTRACT NO. 61C74		
	ILLINOIS FED. AID PROJECT			

FILE NAME = N:\MAYWOOD\130128\Maywood-UPW\1234CS101.DGN

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

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



NOTE:
1. EXISTING PALTFORM, PLATFORM LIGHTS, SIGNS, BENCHES ARE TO REMAIN AND NOT TO BE DISTURBED.

VILLAGE OF MAYWOOD
40 MADISON STREET
MAYWOOD, IL 60153

USER NAME = mmichalowicz	DESIGNED - MBT	REVISED -	
	DRAWN - MBT	REVISED -	
PLOT SCALE = 5'	CHECKED - MEK	REVISED -	
PLOT DATE = 1/22/2016	DATE - 01/25/16	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAYWOOD METRA STATION
CROSS SECTIONS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-00136-00-RR	COOK	65	60
		CONTRACT NO. 61C74		
		ILLINOIS FED. AID PROJECT		

FILE NAME = N:\MAYWOOD\130128\Maywood-UPW\1234CS101.DGN

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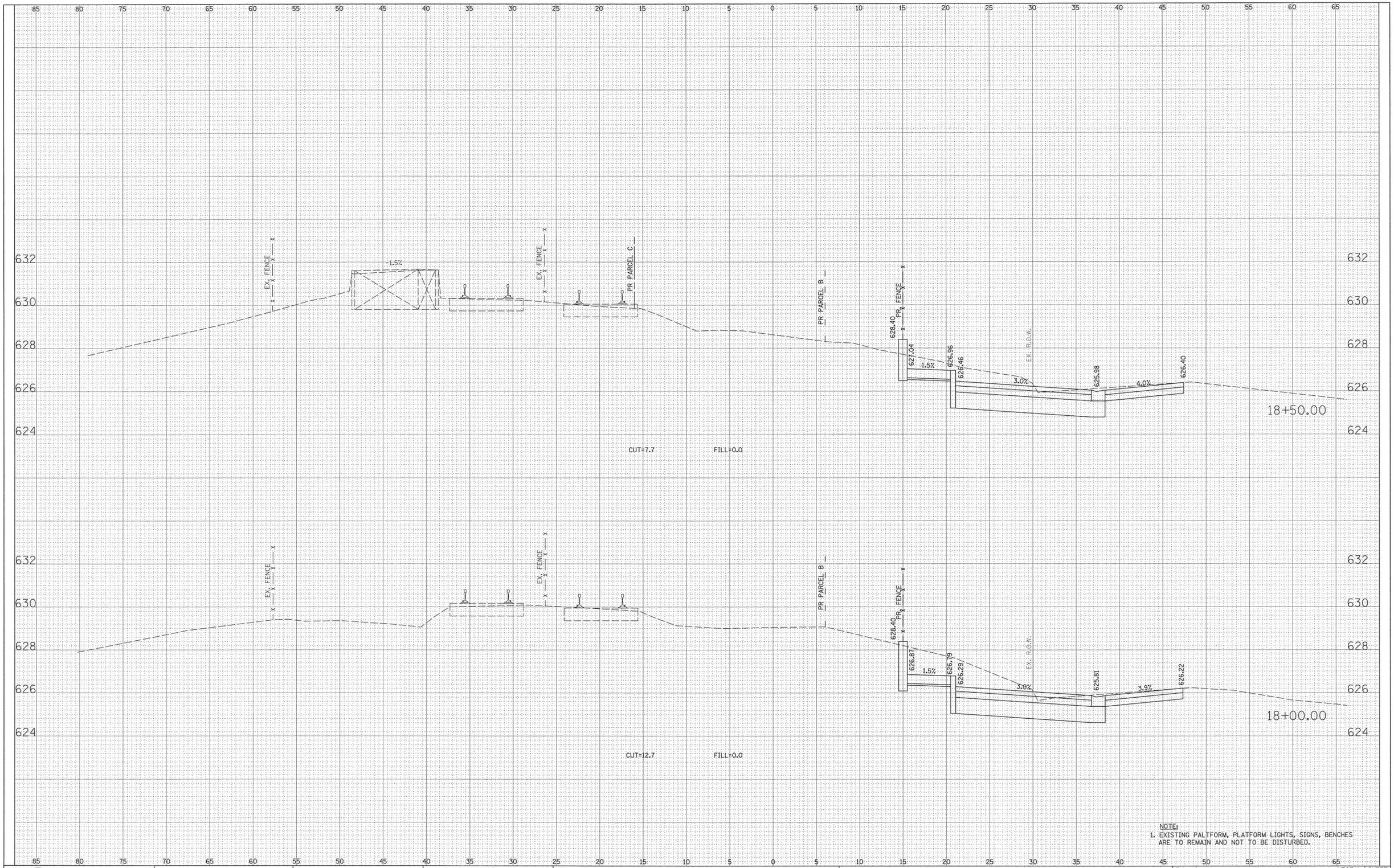
SURVEYED		
PLOTTED		
TEMPLATE		
NOTE BOOK	AREAS	
NO.	AREAS CHECKED	



NOTE:
1. EXISTING PALTFORM, PLATFORM LIGHTS, SIGNS, BENCHES ARE TO REMAIN AND NOT TO BE DISTURBED.

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

VILLAGE OF MAYWOOD
40 MADISON STREET
MAYWOOD, IL 60153

USER NAME = mmichalowicz	DESIGNED - MBT	REVISED -	
	DRAWN - MBT	REVISED -	
PLOT SCALE = 5'	CHECKED - MEK	REVISED -	
PLOT DATE = 1/22/2016	DATE - 01/25/16	REVISED -	

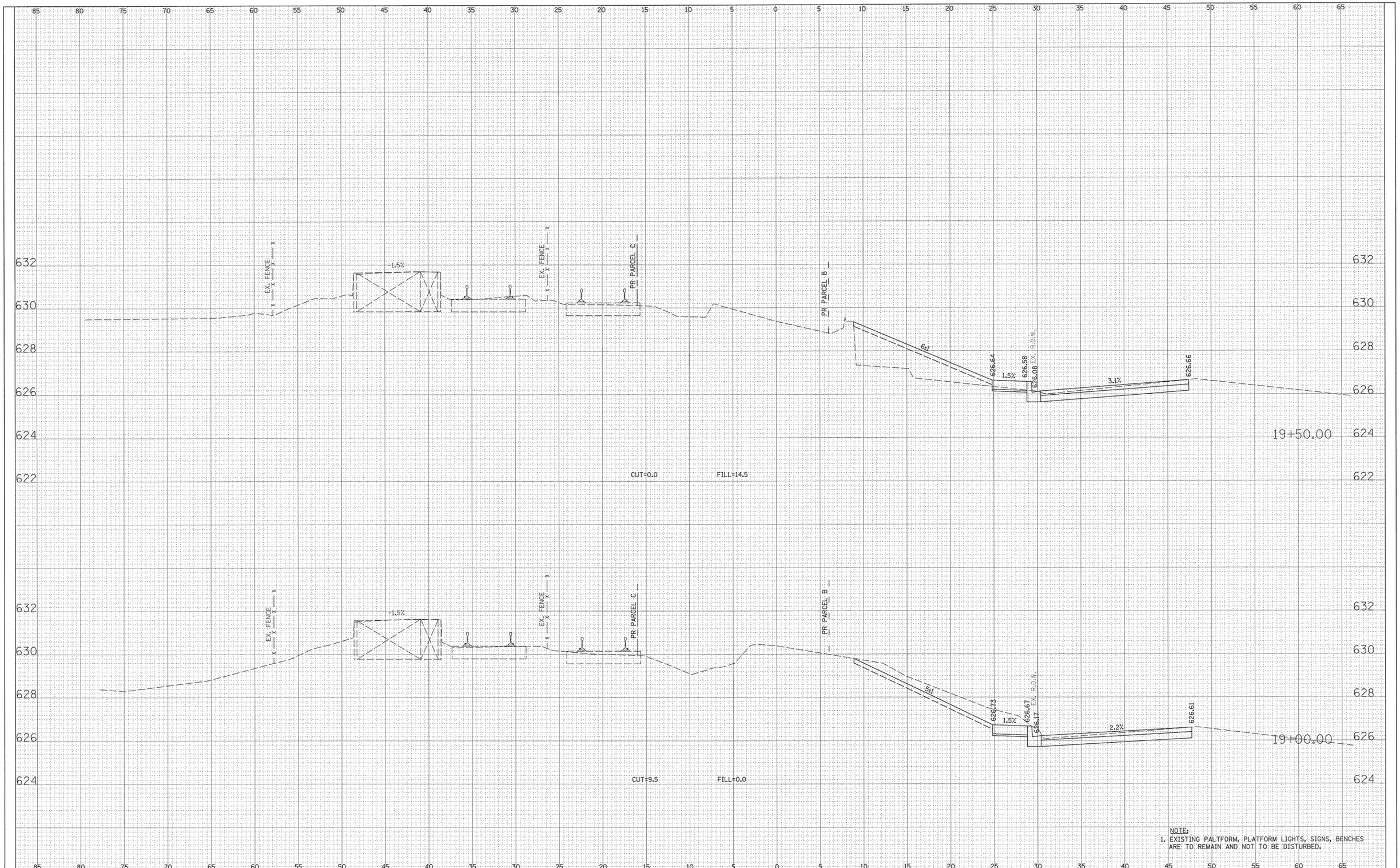
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAYWOOD METRA STATION
CROSS SECTIONS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-00136-00-RR	COOK	65	61
		CONTRACT NO. 61C74		
	ILLINOIS	FED. AID PROJECT		

FILE NAME = N:\MAYWOOD\130128\Maywood-UPW\1234CS100.DGN



NOTE:
1. EXISTING PALTFORM, PLATFORM LIGHTS, SIGNS, BENCHES ARE TO REMAIN AND NOT TO BE DISTURBED.

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

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

VILLAGE OF MAYWOOD
40 MADISON STREET
MAYWOOD, IL 60153

USER NAME = mmichalowicz	DESIGNED	-	MBT	REVISED	-
	DRAWN	-	MBT	REVISED	-
PLOT SCALE = 5'	CHECKED	-	MEK	REVISED	-
PLOT DATE = 1/22/2016	DATE	-	01/25/16	REVISED	-

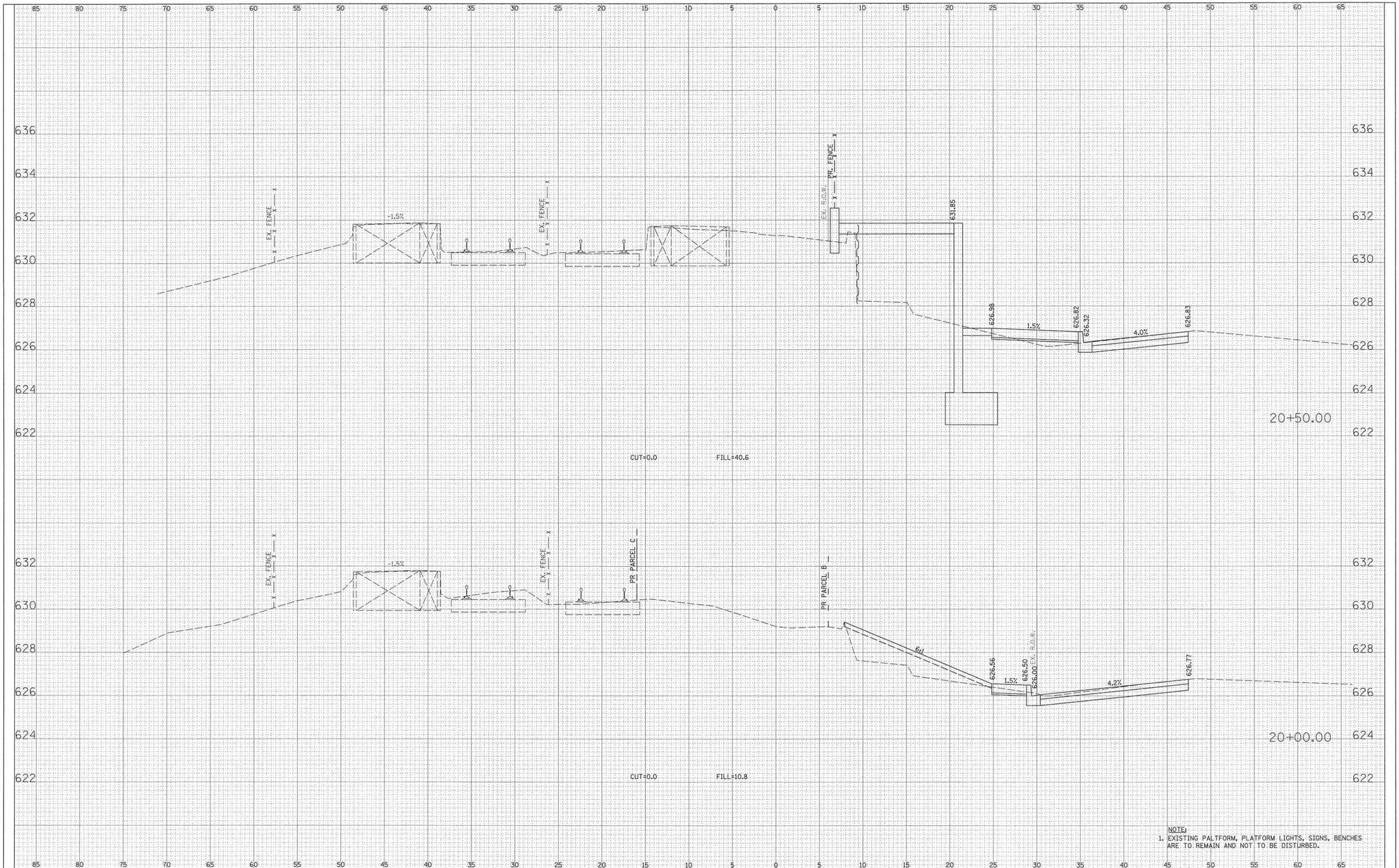
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAYWOOD METRA STATION
CROSS SECTIONS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-00136-00-RR	COOK	65	62
		CONTRACT NO. 61C74		
	ILLINOIS FED. AID PROJECT			

FILE NAME = N:\MAYWOOD\130128\Maywood-UPW\1234CS100.DGN



NOTE:
1. EXISTING PALTFORM, PLATFORM LIGHTS, SIGNS, BENCHES ARE TO REMAIN AND NOT TO BE DISTURBED.

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

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

VILLAGE OF MAYWOOD
40 MADISON STREET
MAYWOOD, IL 60153

USER NAME = mmichalowicz	DESIGNED - MBT	REVISED -	
	DRAWN - MBT	REVISED -	
PLOT SCALE = 5'	CHECKED - MEK	REVISED -	
PLOT DATE = 1/22/2016	DATE - 01/25/16	REVISED -	

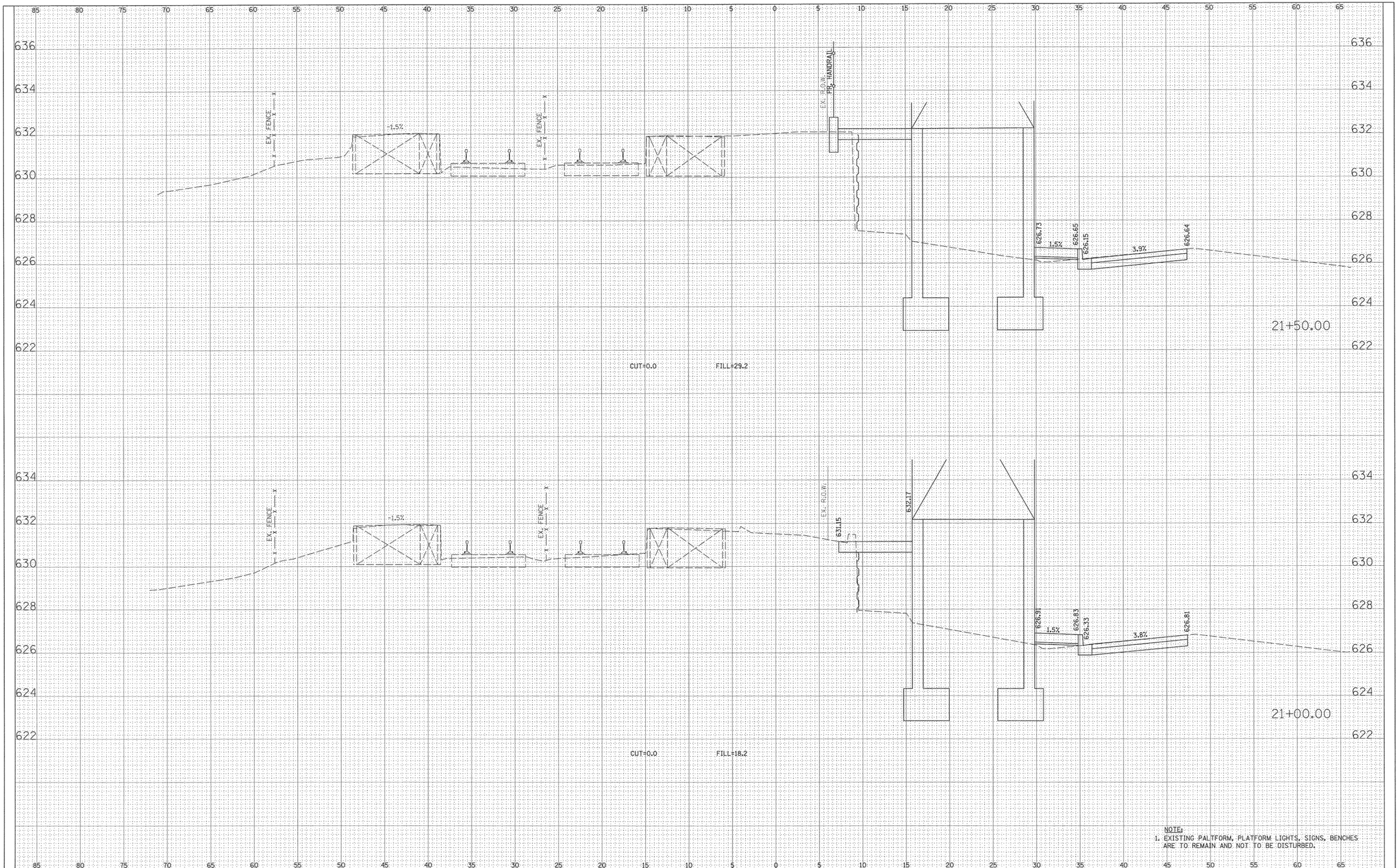
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAYWOOD METRA STATION
CROSS SECTIONS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-00136-00-RR	COOK	65	63
		CONTRACT NO. 61C74		
	ILLINOIS FED. AID PROJECT			

FILE NAME = N:\MAYWOOD\136128\Maywood-DPW\1234C5108.DGN



NOTE:
1. EXISTING PALTFORM, PLATFORM LIGHTS, SIGNS, BENCHES ARE TO REMAIN AND NOT TO BE DISTURBED.

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

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

VILLAGE OF MAYWOOD
40 MADISON STREET
MAYWOOD, IL 60153

USER NAME = mmichalowicz	DESIGNED - MBT	REVISED -	
	DRAWN - MBT	REVISED -	
PLOT SCALE = 5'	CHECKED - MEK	REVISED -	
PLOT DATE = 1/22/2016	DATE - 01/25/16	REVISED -	

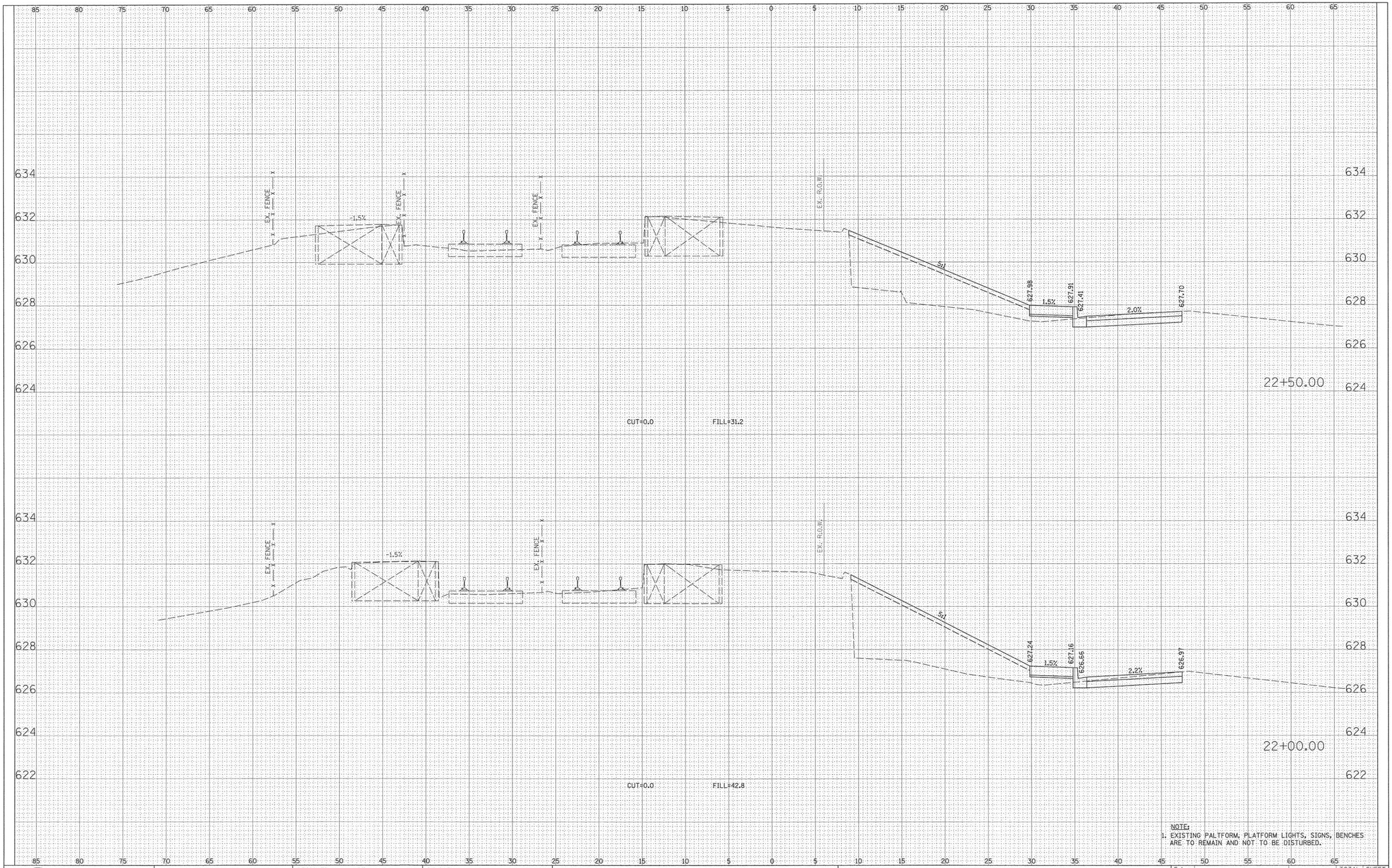
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAYWOOD METRA STATION
CROSS SECTIONS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-00136-00-RR	COOK	65	64
		CONTRACT NO. 61C74		
	ILLINOIS	FED. AID PROJECT		

FILE NAME = N:\MAYWOOD\130128\Maywood-UPW\1234CS100.DGN



NOTE:
1. EXISTING PALTFORM, PLATFORM LIGHTS, SIGNS, BENCHES ARE TO REMAIN AND NOT TO BE DISTURBED.

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

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

VILLAGE OF MAYWOOD
40 MADISON STREET
MAYWOOD, IL 60153

USER NAME = mmichalowicz	DESIGNED - MBT	REVISED -	
	DRAWN - MBT	REVISED -	
PLOT SCALE = 5'	CHECKED - MEK	REVISED -	
PLOT DATE = 1/22/2016	DATE - 01/25/16	REVISED -	

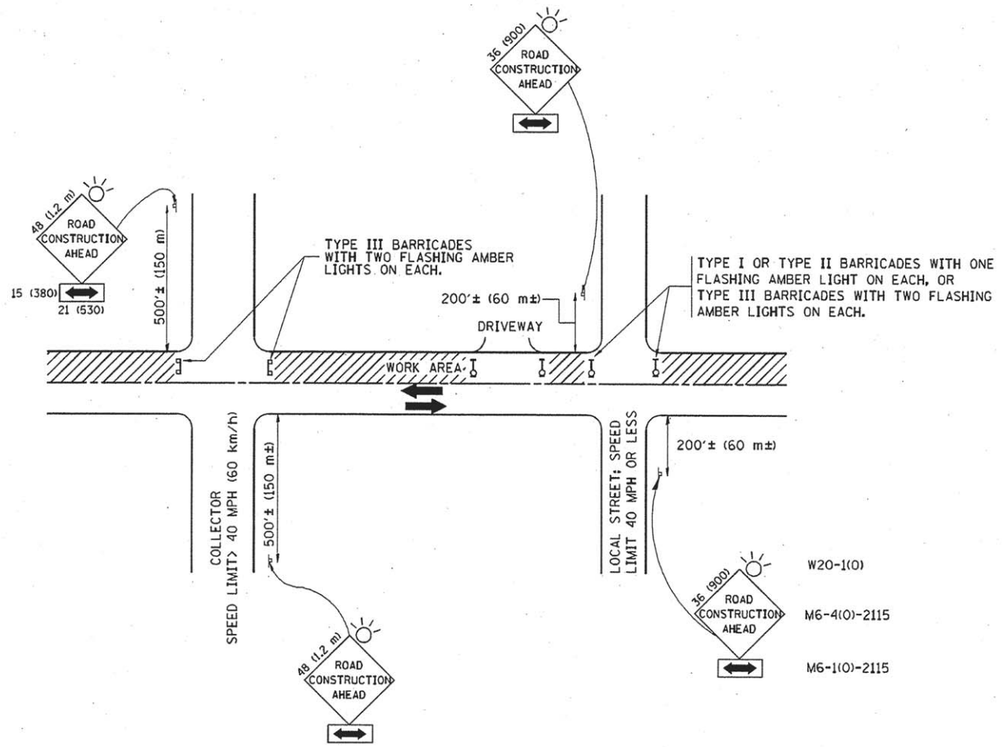
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAYWOOD METRA STATION
CROSS SECTIONS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-00136-00-RR	COOK	65	65
		CONTRACT NO. 61C74		
	ILLINOIS FED. AID PROJECT			

FILE NAME = N:\MAYWOOD\136128\Maywood-UPW\1234CS100.DGN



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

NOTES:

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

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

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

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

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

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

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

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

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

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

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

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

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

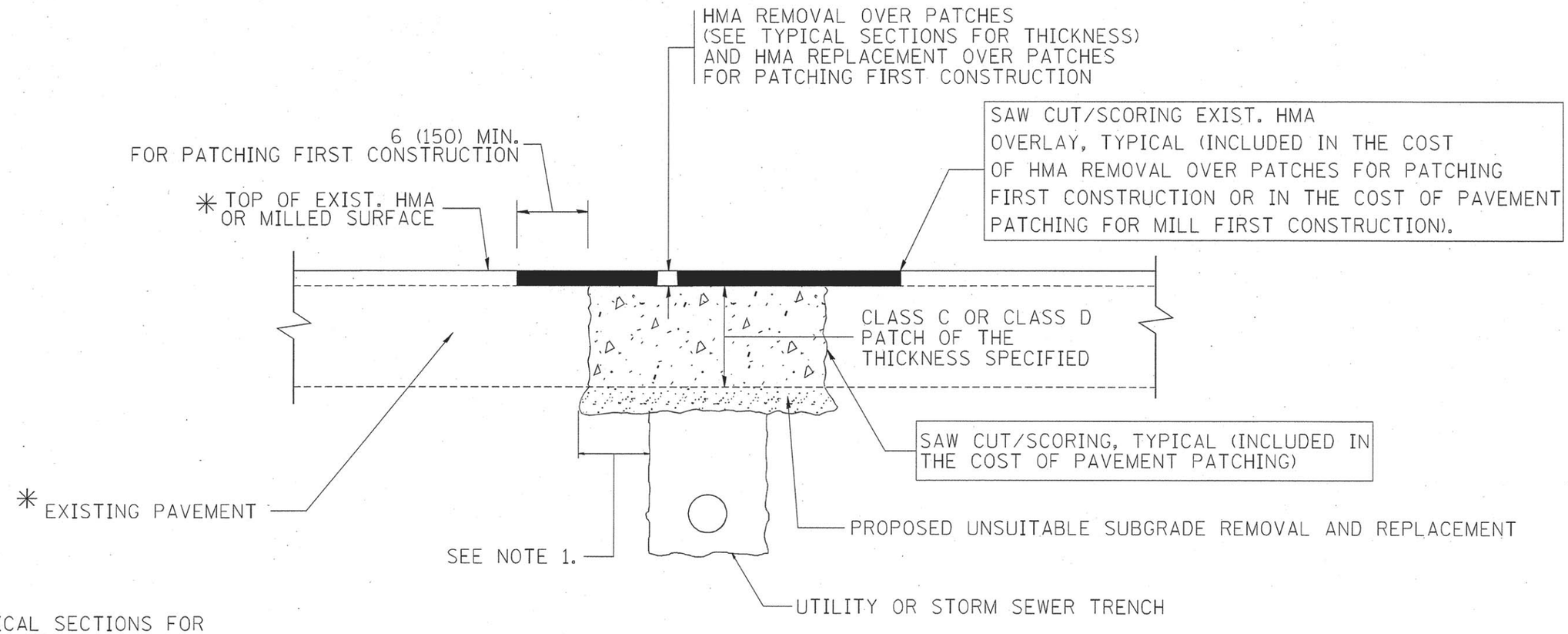
FILE NAME = W:\diststd\22x34\tc10.dgn	USER NAME = gaglianobt	DESIGNED - LHA	REVISED - J. OBERLE 10-18-95
		DRAWN -	REVISED - A. HOUSEH 03-06-96
	PLOT SCALE = 50.000 '/ IN.	CHECKED -	REVISED - A. HOUSEH 10-15-96
	PLOT DATE = 1/4/2008	DATE - 06-89	REVISED -T. RAMMACHER 01-06-00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-00136-00-RR	Cook	65	65A
	TC-10	CONTRACT NO. 61C74		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

NOTES:

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

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

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

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

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

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

FILE NAME = c:\projects\diststd22x34\bd22.dgn	USER NAME = bauerdl	DESIGNED - R. SHAH	REVISED - A. ABBAS 04-27-98
		DRAWN -	REVISED - R. BORO 01-01-07
	PLOT SCALE = 50.000 '/ IN.	CHECKED -	REVISED - R. BORO 09-04-07
	PLOT DATE = 10/27/2008	DATE - 10-25-94	REVISED - K. ENG 10-27-08

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-00136-00-RR	Cook	65	65B
	BD400-04 (BD-22)	CONTRACT NO. 61C74		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		