

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	03-00026-00-PK 06-00026-01-MS	MADISON	53	1

FEDERAL AID PROJECT

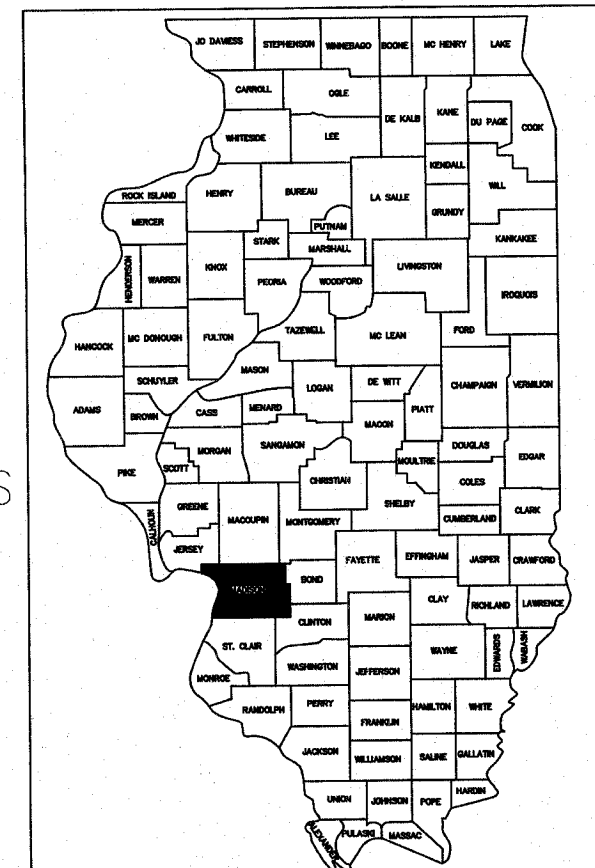
STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

LEWIS & CLARK TOWERS

- STANDARDS
 000001-05
 001001-01
 280001-04
 424001-05
 542301-01
 542546
 602401-01
 604001-02
 606001-03
 606401
 701001-01
 701301-02
 701501-04
 701901
 780001-01
 BLR14-9



LOCATION OF SECTION INDICATED THUS: —■—

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UTILITIES

AMEREN UE (ELEC.) CHARTER COMMUNICATIONS
 PO BOX 66529 (CABLE)
 ST. LOUIS, MO 63166 1048 STATE ST.
 1-800-552-7583 EAST ST. LOUIS, IL 62201
 1-800-211-4450

AMEREN IP (GAS) SBC (PHONE)
 PO BOX 2543 721 MISSOURI AVE
 DECATUR, IL 62525 EAST ST. LOUIS, IL 62201
 1-800-755-5000 618-875-9856

JURISDICTION OF WOOD RIVER DRAINAGE & LEVEE DISTRICT

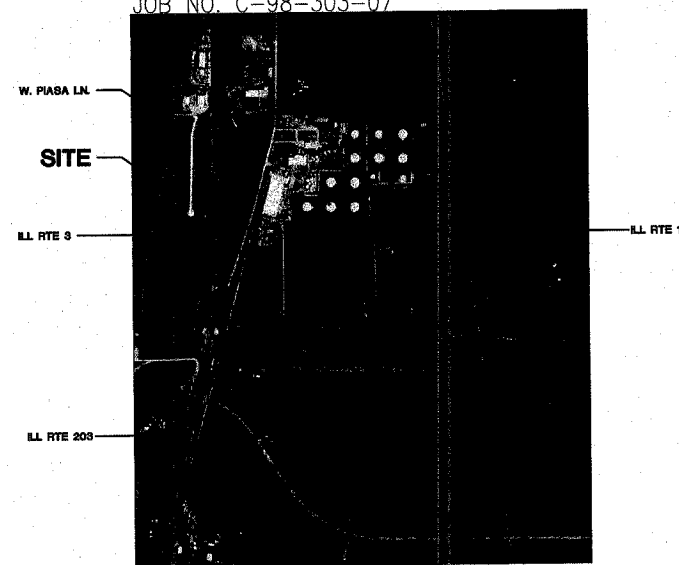
543 W. MADISON AVE.
 WOOD RIVER, IL 62095
 (618) 254-7457 (618) 779-9176

GEOTECHNICAL ENGINEER SCI ENGINEERING INC.

15 EXECUTIVE DRIVE, SUITE 4
 FAIRVIEW HEIGHTS, IL 62208
 PH. (618) 624-6969 FAX (314) 231-6733 FAX (618)
 624-7099

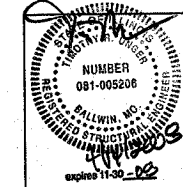
SCENIC BYWAY FUNDS: SECTION 03-00026-00-PK/06-00026-01-MS PROJECT NO. SBIL-TE-00D8(113) VILLAGE OF HARTFORD

JOB NO. C-98-303-07



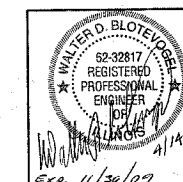
LOCATION MAP

NO SCALE



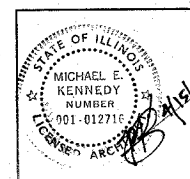
STRUCTURAL ENGINEER

S.S.E. INC.
 138 W. CLINTON PLACE
 ST. LOUIS, MO 63122
 PH. (314) 965-2233
 FAX (314) 965-8269



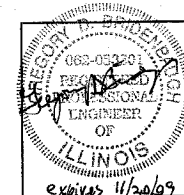
CIVIL ENGINEER/ LAND SURVEY BLOTEVOGEL ASSOC. INC.

2 GINGER CREEK PARKWAY
 GLEN CARBON, IL 62034
 PH. (618) 656-4166
 FAX (618) 656-7127



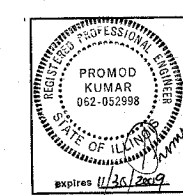
ARCHITECT KAI

211 NORTH BROADWAY, SUITE 1900
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 FAX (314) 241-0125



ELECTRICAL DESIGN KAI

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MECHANICAL DESIGN, & PLUMBING KAI

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CONTRACT NO. **97331**

ILLINOIS DEPARTMENT OF TRANSPORTATION	
APPROVED DATE	4/17 20 08
 WILLIAM MOORE JR. BOARD PRESIDENT	
PASSED	4/16 20 08
 DISTRICT #8 ENGINEER OF LOCAL ROADS & STREETS	
RELEASING FOR BID BASED ON LIMITED REVIEW	4/16 20 08
 DEPUTY DIRECTOR OF HIGHWAYS, REGION #5 ENGINEER	

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 OF THE STATE OF ILLINOIS**

P.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	03-00026-00-PK 06-00026-01-MS	MADISON	53	2

Contract #97331

GENERAL NOTES

- EXISTING UTILITIES HAVE BEEN SHOWN ON THE PLANS FROM THE BEST INFORMATION AVAILABLE AND ARE GIVEN FOR THE CONTRACTOR'S CONVENIENCE. THE EXACT LOCATION MAY DIFFER FROM THAT SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY ALL UTILITIES TO DETERMINE THE EXACT LOCATION. THE CONTRACTOR IS RESPONSIBLE FOR DAMAGE DONE TO ANY UTILITY DURING EXECUTION OF THIS WORK. IT IS UNDERSTOOD AND AGREED THAT THE CONTRACTOR HAS TAKEN THE FOREGOING INTO CONSIDERATION IN PREPARING HIS/HER BID, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR ANY DELAYS OR INCONVENIENCE CAUSED BY SAME.
- THE CONTRACTOR IS RESPONSIBLE FOR KEEPING THE CONSTRUCTION SITE FREE OF DEBRIS AT ALL TIMES AND SHALL KEEP DIRT/MUD OFF ALL PUBLIC STREETS ADJACENT TO THE CONSTRUCTION SITE.
- ALL DISTURBED AREAS, FOR WHATEVER REASON, SHALL BE SEEDED ACCORDING TO THE SPECIAL PROVISIONS.
- CONSTRUCTION CREWS, EQUIPMENT, TRUCKS, TRAILERS, BACKHOES, ETC. SHALL NOT BE PERMITTED TO PARK WITHIN THE PUBLIC RIGHT-OF-WAY ALONG CONFLUENCE TOWER DRIVE DURING THE CONSTRUCTION OF THIS PROJECT.
- ANY FACILITIES OR APPURTENANCES WHICH ARE THE PROPERTY OF ANY PUBLIC UTILITY LOCATED WITHIN THE LIMITS OF CONSTRUCTION SHALL BE RELOCATED OR ADJUSTED BY THEIR RESPECTIVE OWNERS. THE CONTRACTOR SHALL NOTIFY AND COOPERATE WITH THE OWNERS OF ANY SUCH FACILITY IN THEIR REMOVAL AND REARRANGEMENT OPERATIONS IN ORDER THAT THESE OPERATIONS AND THE CONSTRUCTION OF THIS PROJECT MAY PROGRESS IN A REASONABLE MANNER. ALL ROADSIDE OBJECTS (UTILITY POLES, FIRE HYDRANTS, SIGNS, ETC.) SHALL BE RELOCATED TO PROVIDE A MINIMUM OF 2 FEET CLEARANCE, MEASURED FROM THE PROPOSED CONSTRUCTION TO THE NEAR EDGE OF THE OBJECT.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO ORDERING MATERIALS AND COMMENCING CONSTRUCTION.
- THE CONTRACTOR SHALL CONFINE ALL OPERATIONS WITHIN THE CONSTRUCTION LIMITS. ANY AREA DISTURBED BEYOND THESE LIMITS SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.
- FOR WORK PERFORMED WITHIN THE RIGHT-OF-WAY OF CONFLUENCE TOWER DRIVE, TRAFFIC CONTROL SHALL BE ACCORDING TO I.D.O.T. HIGHWAY STANDARDS 702001 AND 701301.
- ELEVATION CONVERSION FROM CIVIL DRAWINGS TO ARCHITECTURAL, STRUCTURAL, AND OTHER DRAWINGS IS AS FOLLOWS:
EL. 435.50' = EL. 100'-0"

SUMMARY OF QUANTITIES

CODED PAY ITEM	DESCRIPTION	UNIT	QUANT.	SBIL	ITEP	CONST. TYPE CODE Y 021	VILLAGE 20%	VILLAGE 100%
20200100	EARTH EXCAVATION	CU YD	14.798	7.779.0	7.019.0	11.838.4	2,959.6	
20800150	TRENCH BACKFILL	CU YD	24.3		24.3	19.4	4.9	
25000910	SEEDING, CLASS 1 (MODIFIED)	ACRE	3.2	2.0	1.2	2.6	0.6	
25001850	SEEDING, CLASS 7 (MODIFIED)	ACRE	0.2	0.2		0.16	0.04	
25100630	EROSION CONTROL BLANKET	SO YD	749	749.0		599.2	149.8	
25200100	SODDING	SO YD	376			376.0	300.8	75.2
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	1,040	520.0	520.0	832.0	208.0	
28000300	TEMPORARY DITCH CHECKS	EACH	1	1.0		0.8	0.2	
28000400	PERIMETER EROSION BARRIER	FOOT	1,275	830.0	445.0	1,020.0	255.0	
28000500	INLET AND PIPE PROTECTION	EACH	2	2.0		1.6	0.4	
28100707	STONE DUMPED RIPRAP, CLASS A4	SO YD	35	22.0	13.0	28.0	7.0	
28200200	FILTER FABRIC	SO YD	35	22.0	13.0	28.0	7.0	
30200650	PROCESSING MODIFIED SOIL, 12"	SO YD	6,123	2,722.0	3,401.0	4,898.4	1,224.6	
30201500	LIME	TON	104	39.0	65.0	83.2	20.8	
31100100	SUB-BASE GRANULAR MATERIAL, TYPE A	TON	2,730	1,348.0	1,382.0	2,184.0	546.0	
40300100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	1,165	575.0	590.0	932.0	233.0	
40603085	HOT MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	492	243.0	249.0	393.6	98.4	
40603315	HOT MIX ASPHALT SURFACE COURSE, MIX "C", N70	TON	492	243.0	249.0	393.6	98.4	
42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SO YD	265	199.0	66.0	212.0	53.0	
42400100	PORTLAND CEMENT CONCRETE SIDEWALK, 4 INCH	SO FT	10,445	5,856.0	4,589.0	8,356.0	9,267.0	
42400800	DETECTABLE WARNINGS	SO FT	48	8.0	40.0	38.4	9.6	
542A0229	PIPE CULVERTS, CLASS A, TYPE 1, 24"	FOOT	164	164.0		131.2	32.8	
54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS, 15"	EACH	1		1.0	0.8	0.2	
54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS, 24"	EACH	4	4.0		3.2	0.8	
54244405	FLUSH INLET BOX FOR MEDIAN, STANDARD 542546	EACH	1		1.0	0.8	0.2	
550A0070	STORM SEWERS, CLASS A, TYPE 1, 15"	FOOT	87		87.0	69.6	17.4	
56200900	WATER SERVICE LINE 2 1/2"	FOOT	42	42.0		33.6	8.4	
60600605	CONCRETE CURB, TYPE B	FOOT	1,959	947.0	1,012.0	1,567.2	391.8	
60614600	PAVED DITCH (SPECIAL)	FOOT	147		147.0	117.6	29.4	
67100100	MOBILIZATION	L SUM	1	0.3810	0.6190	0.8	0.2	
70101700	TRAFFIC CONTROL & PROTECTION	L SUM	1	0.5	0.5	0.8	0.2	
70102620	TRAFFIC CONTROL & PROTECTION STANDARD T01501	L SUM	1	0.5	0.5	0.8	0.2	
72000100	SIGN PANEL - TYPE 1	SO FT	43	27.0	16.0	34.4	8.6	
73000100	WOOD SIGN SUPPORT	FOOT	204	156.0	48.0	163.2	40.8	
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS	SO FT	98	14.0	84.0	78.4	19.6	
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE, 4"	FOOT	3,596	1,444.0	2,152.0	2,876.8	719.2	
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE, 12"	FOOT	5	5.0		4.0	1.0	
* X0322587	CONSTRUCTION ACCESS	EACH	1		1.0	0.8	0.2	
* X0323256	REMOVE AND RELOCATE FLAGPOLE	EACH	1		1.0	0.8	0.2	
* X5640175	FIRE HYDRANT COMPLETE	EACH	1		1.0	0.8	0.2	
* XX003526	DUCTILE IRON WATER MAIN FITTINGS, 8" X 6" REDUCER	EACH	1		1.0	0.8	0.2	
* XX003543	DUCTILE IRON WATER MAIN FITTINGS, 8" 45 DEGREE BEND	EACH	1		1.0	0.8	0.2	
* XX003803	SANITARY SEWER SERVICE 6"	FOOT	43	43.0		34.4	8.6	
* XX003949	CONSTRUCTION STAKING	L SUM	1		1.0	0.8	0.2	
* XX005452	FENCE RAIL	FOOT	265	265.0		212.0	53.0	
* XX007056	BUILDING	L SUM	1	0.3295	0.6705	0.8	0.2	
* XX007058	FUSION WELDED PIPE, 8" HIGH DENSITY POLYETHYLENE, SDR-11, 160 PSI	FOOT	633			506.4	126.6	
* XX007059	MANHOLES (LEAKAGE TESTING)	EACH	2		633.0	1.6	0.4	
* XX007060	MANHOLES, TYPE A, 4' DIAMETER, WATERPROOF FRAME & BOLTED LID	EACH	2		2.0	1.6	0.4	
* XX007061	OUTFALL STRUCTURE	EACH	1		2.0	0.8	0.2	
* XX007062	REMOVE EXISTING CAP	EACH	1		1.0	0.8	0.2	
* XX007063	REMOVE EXISTING PLUG	EACH	1		1.0	0.8	0.2	
* XX007064	WATER MAIN TRACER WIRE	FOOT	340		1.0	272.0	68.0	
* XX007065	WATER METER	EACH	1		340.0	0.8	0.2	
					1.0			

* - SPECIALTY ITEMS

"NO COMMITMENTS"

21 North Broadway
 Suite 1900
 St. Louis, Missouri 63102
 Tel: (314) 241-8188
 Fax: (314) 541-0125
LEWIS AND CLARK
 MEMORIAL TOWER



LEWIS AND CLARK
MEMORIAL TOWER
 HARTFORD, ILLINOIS 62448

SHEET TITLE:
GENERAL NOTES
SUMMARY OF QUANTITIES

REV. NO.	DATE	REMARKS

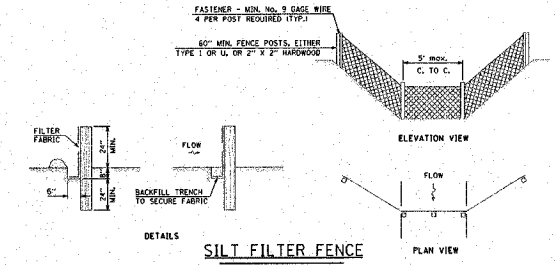
KENNEDY PROJECT NO.
10-02048

ISSUE DATE

SHEET NO.

C-01

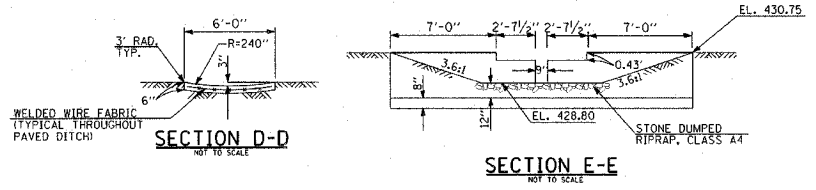
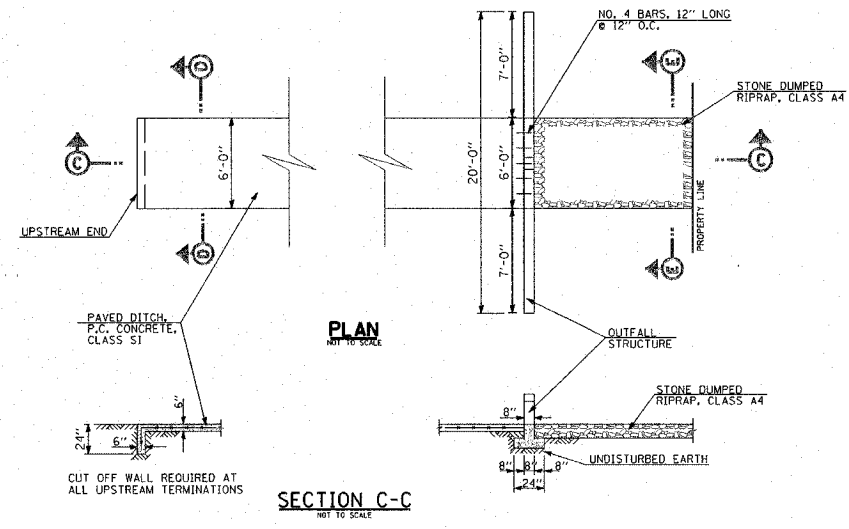
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	03-00026-00-PK 06-00026-01-MS	MADISON	53	3



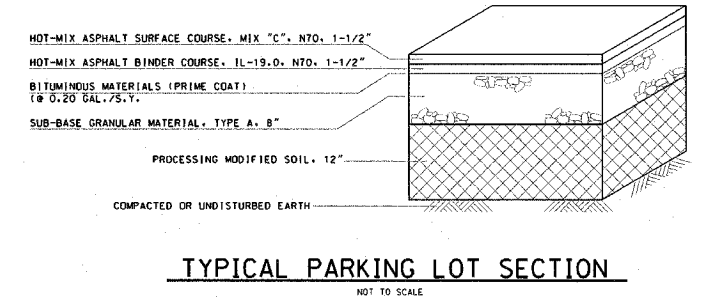
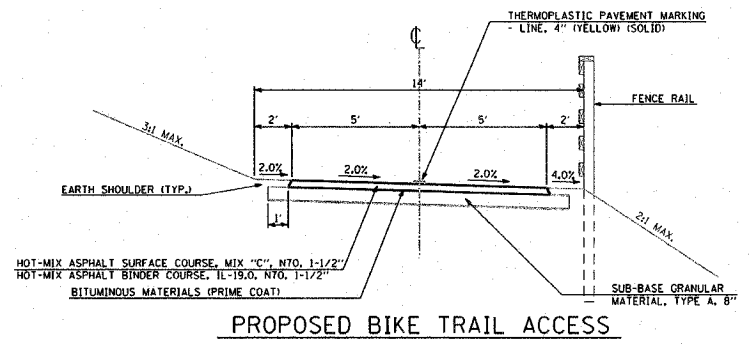
- ALL SILT FENCES SHALL BE PLACED AS CLOSE TO THE CONTOUR AS POSSIBLE, WITH THE ENDS EXTENDING UPSLOPE. THE AREA BELOW THE FENCE MUST BE UNDISTURBED OR STABILIZED.
- WOOD POSTS WILL BE OF SOUND QUALITY WOOD WITH A MIN. CROSS SECTIONAL AREA OF 3.0 SQ. IN. STEEL POSTS WILL BE STANDARD T AND U SECTIONS WEIGHING NOT LESS THAN 1.0 LBS./L.F. THE MAX. SPACING WILL BE 9 FEET. WHEN WIRE BACKING IS USED, THE MAX. SPACING MAY BE INCREASED TO 10 FEET. THE POSTS SHALL BE DRIVEN A MIN. OF 24" INTO THE GROUND. SPACING MAY NEED TO BE ADJUSTED SO THAT POSTS ARE LOCATED IN LOW AREAS WHERE WATER MAY POND.
- WIRE FENCE SHALL BE A MIN. 9 GAUGE TOP AND BOTTOM WIRES WITH A MAX. 6" MESH OPENING, OR AS APPROVED BY THE ENGINEER.
- THE FILTER FABRIC SHOULD BE FURNISHED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE SILT FENCE NEEDED TO AVOID SPLICES. WHEN SPLICES ARE NECESSARY, THE FABRIC SHOULD BE SPLICED AT A SUPPORT POST WITH A MIN. 6" OVERLAP, FOLDED OVER AND SECURELY FASTENED.
- THE SILT FENCE SHALL BE ENTRENCHED TO A MIN. DEPTH OF 8", WITH AN ADDITIONAL 6" EXTENDING ALONG THE BOTTOM OF THE TRENCH IN THE UPSLOPE DIRECTION. THE TRENCH SHALL BE BACKFILLED AND THE SOIL COMPACTED OVER THE FABRIC.
- THE FILTER FABRIC AND WIRE SUPPORT, IF USED, MUST BE SECURELY FASTENED TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY DUTY WIRE STAPLES AT LEAST ONE INCH LONG, TIE WIRES OR HOE RINGS. THE FABRIC SHALL NOT BE STAPLED OR WIRED TO THE WIRE SUPPORT. THE FABRIC SHALL NOT BE STAPLED TO EXISTING TREES.
- INTERMEDIATE WIRE OF MESH SUPPORTS SHALL BE A MIN. OF GAGE NO. 11.
- OPERATION AND MAINTENANCE OF SILT FENCE
 - SILT FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS, BUT NOT BEFORE THE UPSLOPE AREAS HAVE BEEN PERMANENTLY STABILIZED.
 - SILT FENCES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL.
 - SHOULD THE FABRIC DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE FENCE STILL IS NECESSARY, THE FABRIC OR THE ENTIRE SYSTEM SHALL BE REPLACED PROMPTLY.
 - SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH RAINFALL. THEY MUST BE REMOVED WHEN THE LEVEL OF DEPOSITION REACHES APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.
 - ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, A SEEDBED PREPARED AND THE SITE VEGETATED.

THE FOLLOWING EROSION CONTROL MEASURES SHALL BE PROVIDED BY THE CONTRACTOR:

- PERIMETER EROSION BARRIER (SILT FENCE) SHALL BE ERECTED PRIOR TO EXCAVATION AND CLEARING IN THE UPSLOPE AREA.
- THE TEMPORARY EROSION CONTROL SYSTEMS SHALL BE PROPERLY MAINTAINED BY THE CONTRACTOR TO CONTROL SILTATION AT ALL TIMES DURING THE LIFE OF THE CONTRACT.
- AT ALL TIMES, EROSION CONTROL MEASURES SHALL BE EMPLOYED TO PREVENT SILT FROM LEAVING THE SITE. ALL EROSION CONTROL WORK IS TO BE DONE ACCORDING TO THE CURRENT EDITION OF THE STANDARD SPECIFICATIONS AND THE STORM WATER POLLUTION PREVENTION PLAN.
- PRIOR TO THE START OF ANY EARTH MOVING OPERATIONS, THE CONTRACTOR SHALL INSURE THAT A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND A NOTICE OF INTENT (NOI) HAVE BEEN PREPARED, SIGNED AND FILED BY THE OWNER ACCORDING TO THE REQUIREMENTS OF THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT IL R 10 WHICH AUTHORIZES THE STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THIS CONSTRUCTION SITE.
- ADDITIONAL EROSION PROTECTION DEVICES SHALL BE INSTALLED SHOULD OTHER AREAS OF EROSION IN THE DEVELOPMENT OCCUR, AS DIRECTED BY THE CONSTRUCTION MANAGER.
- SEEDING SHALL BE APPLIED WITHIN 7 DAYS OF FINAL GRADING IN ALL DISTURBED AREAS.
- ALL EROSION CONTROL ITEMS SHALL BE REMOVED AND BECOME THE PROPERTY OF THE CONTRACTOR AT THE COMPLETION OF THE CONTRACT, OR AS DIRECTED BY THE RESIDENT ENGINEER.



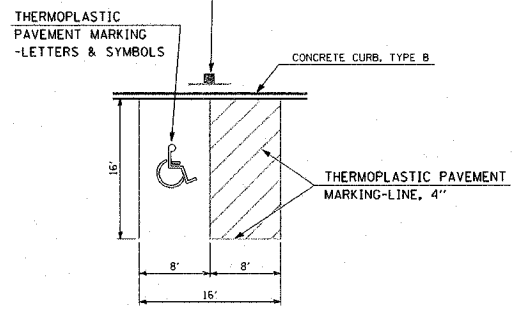
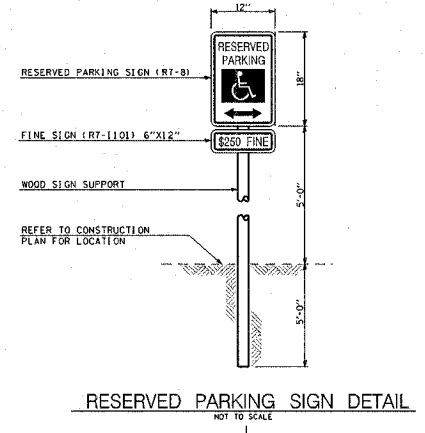
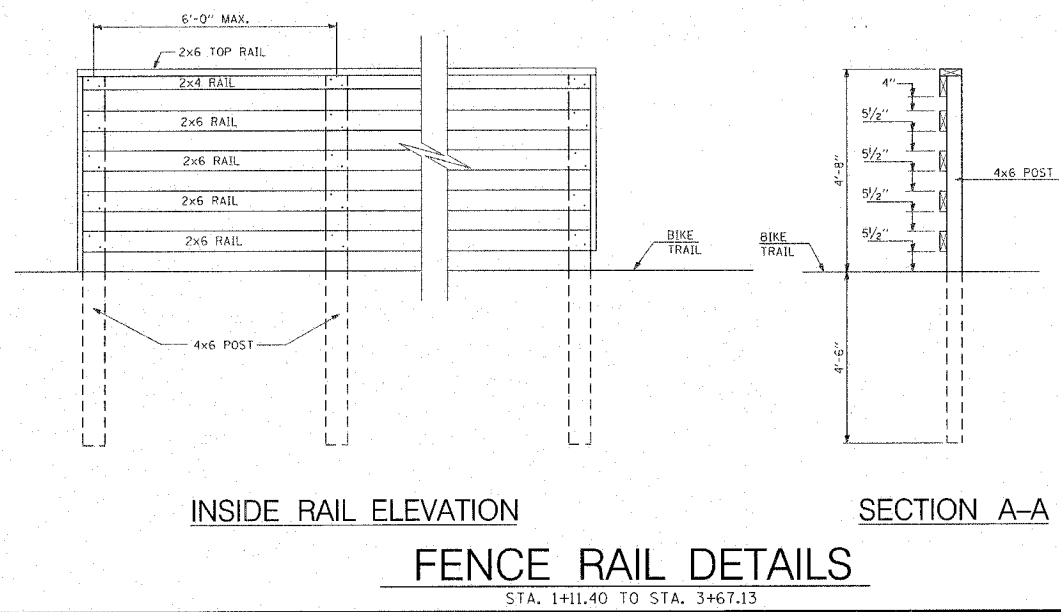
PAVED DITCH & OUTFALL STRUCTURE
NOT TO SCALE
STA. 10+08.50 TO STA. 11+53



THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

MIXTURE USE	SURFACE	BINDER
AC/PG	PG 64-22	PG 64-22
RAP % (MAX)	10	15
DESIGN AIR VOIDS	4.0% @ NDES=70	4.0% @ NDES=70
MIX COMPOSITION (GRADATION MIXTURE)		IL 19.0
FRICITION AGG	MIXTURE C	MIXTURE B

- STREET AND PAVEMENT CONSTRUCTION NOTES :
- ALL STREET WORK IS TO BE DONE ACCORDING TO THE ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, ADOPTED JANUARY 1, 2007 AND LATEST REVISIONS.
 - ALL CONCRETE PAVEMENT AND DRIVEWAYS SHALL BE POURED SO THAT NO FINISHED PANEL EXCEEDS 15' ALONG ANY EDGE, UNLESS SHOWN OTHERWISE.
 - ALL CONSTRUCTION JOINTS SHALL BE TIED USING #6 BARS, 30" LONG AT 24" O.C..
 - SAWED TRANSVERSE JOINTS (1/8" X 2") SHALL BE CREATED AT 15' INTERVALS. BARS ARE NOT REQUIRED. JOINTS TO BE SEALED WITH HOT POURED JOINT SEALER IN ALL CONCRETE CONSTRUCTION.
 - EMBANKMENT SHALL BE PLACED AS REQUIRED IN SECTION 205 OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, ADOPTED JANUARY 1, 2007 AND LATEST REVISIONS. CONTRACTOR SHALL SUBMIT TO THE RESIDENT ENGINEER DOCUMENTATION OF COMPACTION TESTS FOR WRITTEN APPROVAL OF SAID COMPACTION PRIOR TO CONSTRUCTION OF ANY PAVEMENT/SIDEWALK.
 - CUT SECTIONS SHALL BE PROOF ROLLED AND APPROVED BY THE RESIDENT ENGINEER PRIOR TO CONSTRUCTION OF ANY PAVEMENT/SIDEWALK.



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**LEWIS AND CLARK
MEMORIAL TOWER**
HARTFORD, ILLINOIS 62033

SHEET TITLE:
DETAILS

NO.	DATE	REVISIONS

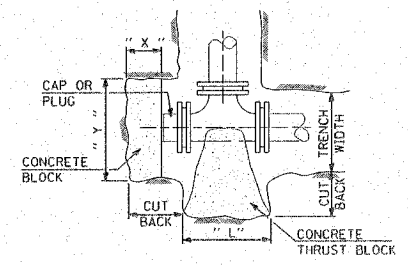
KENNEDY PROJECT NO
10-02048

ISSUE DATE

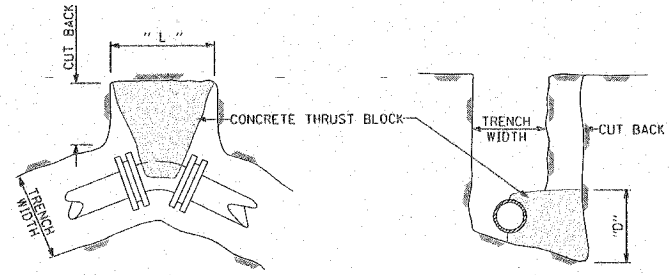
SHEET NO.
C-02

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	03-00026-00-PK 06-00026-01-MS	MADISON	53	4

THRUST BLOCKING SCHEDULE						
PIPE SIZE	BENDS				TEES	
	1/4 OR 90°	1/2 OR 45°	1/4 OR 22 1/2°	1/2 OR 11 1/4°	CAP/PLUG	THRUST BLOCK
6"	2.00	1.20			1.50	1.50
8"	3.60	2.10	1.60		2.70	2.70
10"	5.60	3.20	2.60	2.10	4.30	4.30
12"	8.00	4.80	3.70	3.10	6.20	6.20
14"	11.00	7.30	5.00	4.20	8.40	8.40
18"	18.20	12.00	8.40	6.90	13.80	13.80

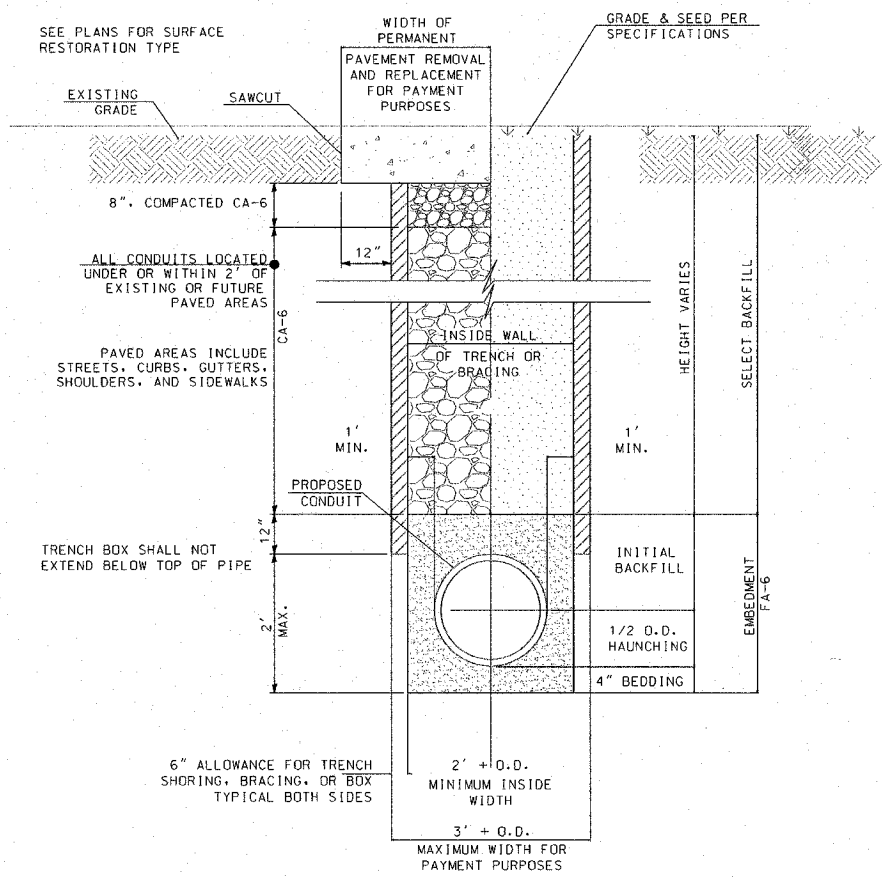


PLAN OF TEES & PLUGS
 Y = SQ. FT. OF THRUST BLOCK AREA
 X = 1/3 x Y OR 8" WHICHEVER IS LARGER



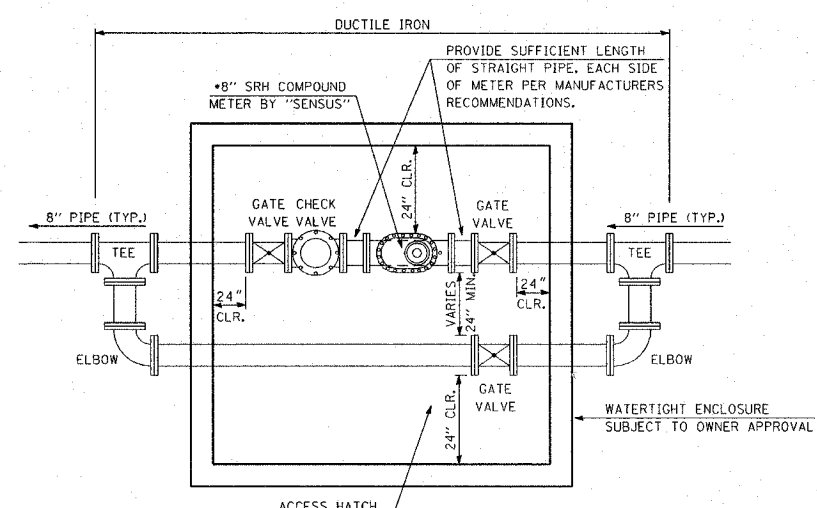
PLAN OF BENDS

SECTION
 NOTE: THRUST BLOCKING AREA = L x D



TRENCH DETAIL

NOT TO SCALE
 FOR OPEN-CUT INSTALLATION (IF NECESSARY)

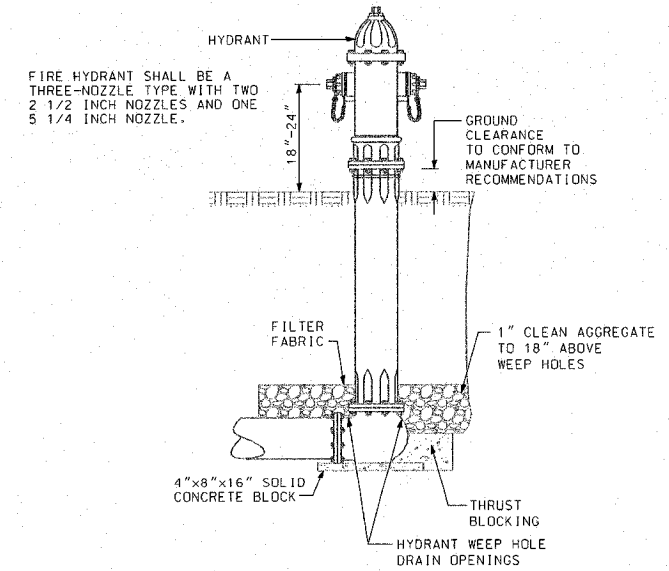


METER READING METHOD SHALL BE COORDINATED WITH VILLAGE OF HARTFORD

ALL PIPE & FITTINGS SHALL BE DUCTILE IRON, (FLANGED IN METER PIT, OTHERS MECHANICAL, AS SHOWN)

PROVIDE FULL OPENING, ALUMINUM LOCKABLE ACCESS HATCH, SIZED TO PROVIDE FULL LIFTING ACCESS TO ALL INTERNAL COMPONENTS.

DETAIL OF WATER METER
 NOT TO SCALE



FIRE HYDRANT DETAIL

NOT TO SCALE

POTABLE WATER SYSTEM NOTES AND SPECIFICATIONS (UNLESS OTHERWISE NOTED ELSEWHERE)

1. WATER MAIN PIPE SHALL BE HDPE, SDR-11, 160 PSI MEETING THE REQUIREMENTS OF AWWA C906, PE3408, WITH JOINTS MEETING THE REQUIREMENTS OF ASTM D2657. (OR EQUIVALENT MATERIALS AND METHODS IN COMPLIANCE WITH THE APPLICABLE ASTM STANDARDS)
2. WATER MAIN PIPE SHALL HAVE A MINIMUM COVER OF 42" FROM THE FINISHED GRADE TO THE TOP OF PIPE.
3. GATE VALVES SHALL BE CONSTRUCTED OF DUCTILE IRON WITH MECHANICAL JOINT OUTLETS AND A RESILIENT SEAT WEDGE SHUT OFF DESIGN.
4. VALVE BOX AND COVER SHALL BE CONSTRUCTED OF CAST IRON. THE VALVE BOX LID SHALL BE STAMPED "WATER".
5. FIRE HYDRANTS SHALL BE MUELLER SUPER CENTURION 200/MODEL A-423 OR EQUIVALENT WITH 5 1/4" MAIN VALVE OPENING, 4 FOOT BURY, 3 WAY OUTLET DESIGN WITH A 6" MECHANICAL JOINT SHOE OUTLET. WITH A RETAINER GLAND ON THE MECHANICAL JOINT OUTLET.
6. ALL FITTINGS (BENDS, TEES, CROSSES, ETC.) SHALL BE CONSTRUCTED OF DUCTILE IRON WITH MECHANICAL JOINT OUTLETS. CONVENTIONAL RETAINING GLANDS ARE ACCEPTED.
7. TRACER WIRE SHALL BE NO. 12 GAUGE RUBBER COATED INSULATED SOLID COPPER WIRE WITH A THREE (3) FOOT LONG COIL AT EACH END.
8. CROSSINGS OF WATER MAINS SHALL BE CONSTRUCTED ACCORDING TO SECTION 41-2.01 OF THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS.
9. THRUST BLOCKING SHALL BE CONSTRUCTED ACCORDING TO SECTION 41-2.09 OF THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS.
10. CHLORINE SHALL BE USED FOR DISINFECTION ACCORDING TO SECTION 41-2.14B OF THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS.
11. HYDROSTATIC TESTING OF ALL NEW WATER MAINS SHALL BE PERFORMED ACCORDING TO SECTION 41-2.13 OF THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS. THE CONTRACTOR IS REQUIRED TO PROVIDE ALL MATERIALS AND MANPOWER NECESSARY FOR TESTING. THE CONTRACTOR SHALL NOTIFY THE VILLAGE OF HARTFORD PUBLIC WORKS DEPARTMENT WHEN THE TESTING TAKES PLACE SO THAT A VILLAGE REPRESENTATIVE CAN BE PRESENT.
12. BACTERIOLOGICAL WATER SAMPLING OF ALL NEW WATER MAINS SHALL BE PERFORMED BY THE CONTRACTOR IN COOPERATION WITH THE HARTFORD PUBLIC WORKS DEPARTMENT.
13. THE HARTFORD PUBLIC WORKS DEPARTMENT SHALL BE RESPONSIBLE FOR TURNING ON THE NEW WATER MAIN EXTENSION AND IT SHALL NOT BE CONSIDERED COMPLETE UNTIL ACCEPTED IN WRITING BY THE VILLAGE OF HARTFORD.

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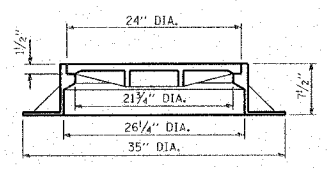
LEWIS AND CLARK
 MEMORIAL TOWER
 HARTFORD, ILLINOIS 62048

SHEET TITLE:
 WATER MAIN DETAILS

REV. NO.	DATE	REMARKS

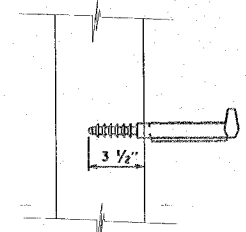
KENNEDY PROJECT NO
 10-02048
 ISSUE DATE
 SHEET NO.
 C-03

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	03-00026-00-PK 06-00026-01-MS	MADISON	53	5



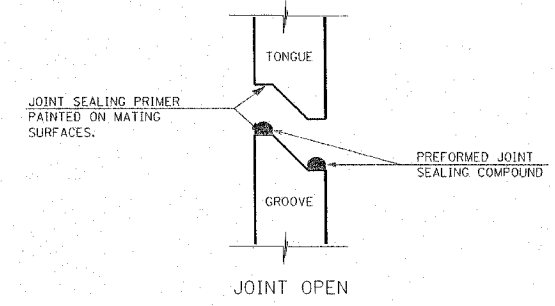
WATERPROOF FRAME AND BOLTED LID

ALL MANHOLE FRAMES AND LIDS SHALL BE NEENAH TYPE R-1916D, OR EQUIVALENT. THE MANHOLE LID SHALL HAVE A CONCEALED PICKHOLE LESS THAN 1" IN DIA. AND SHALL HAVE CAST IN THE CENTER THE WORD "SANITARY". MASTIC SEALANT SHALL BE APPLIED BETWEEN THE CONCRETE AND FLANGE OF THE FRAME BEFORE THE LID BOLTS ARE TIGHTENED.

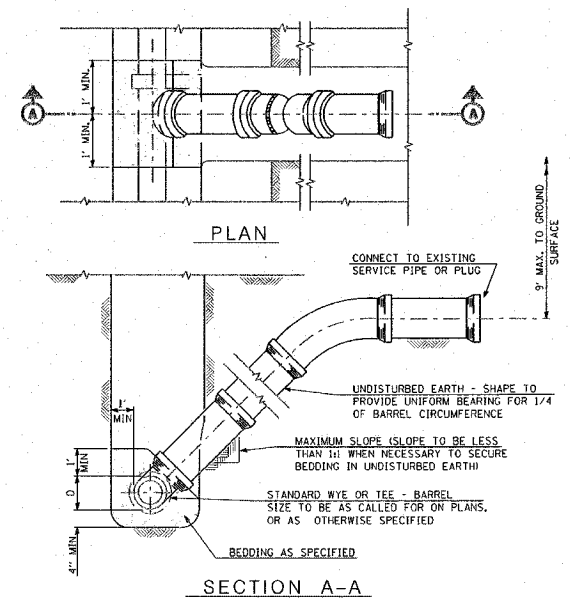


MANHOLE STEP, PLASTIC
NOT TO SCALE

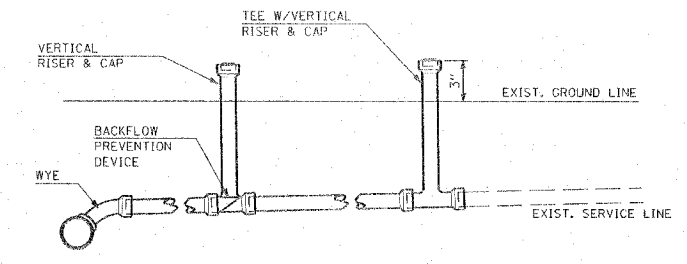
STEPS SHALL BE MADE OF A 3/8" REINFORCING ROD ENCAPSULATED IN A COPOLYMER POLYPROPYLENE PLASTIC AND CONFORMING TO O.S.H.A. REQUIREMENTS.
STEPS SHALL BE 12" WIDE WITH 10" LEGS AND 12" O.C. VERTICAL.



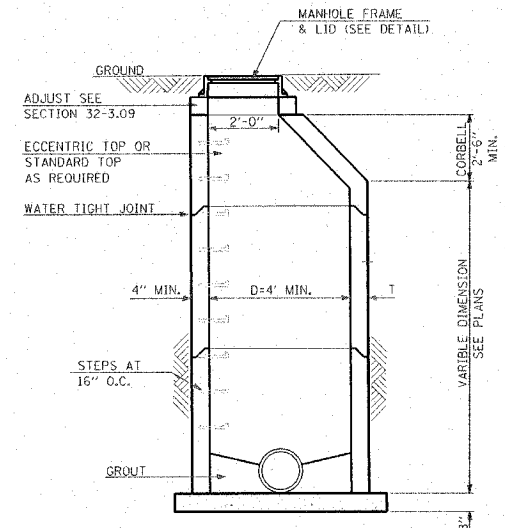
WATER TIGHT JOINT DETAIL
NOT TO SCALE



TYPICAL RISER FOR SERVICE LATERAL
NOT TO SCALE



TYPICAL CLEAN OUT DETAIL



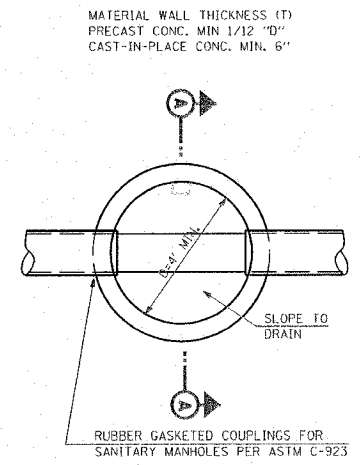
BOTTOM SLAB: 3500 PSI CONCRETE OR PRECAST REINFORCED CONCRETE SLAB ON 6" SAND CUSHION BOTTOM SLAB, MAY BE PRECAST MONOLITHIC WITH MANHOLE WALL SECTION

SECTION A-A

IF AREA UNDER THE MANHOLE IS DISTURBED DURING CONSTRUCTION, THE BACKFILL SHALL BE THOROUGHLY COMPACTED TO THE SATISFACTION OF THE ENGINEER.

MANHOLE, TYPE A
NOT TO SCALE

SEPARATE SANITARY SEWER MANHOLES SUBJECT TO SATURATED SOIL CONDITIONS OR SURFACE SUBMERGENCE SHALL BE EQUIPPED WITH CHIMNEY SEALS AND WATER TIGHT MANHOLE COVERS.



SECTIONAL PLAN

STEPS REQUIRED, UNLESS DELETED BY SPECIAL PROVISIONS.

SANITARY SEWER SYSTEM NOTES AND SPECIFICATIONS
(UNLESS NOTED OTHERWISE ELSEWHERE)

- ALL SANITARY SEWER WORK SHALL BE COMPLETED ACCORDING TO THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION, IN ILLINOIS, ADOPTED MAY, 1996, AND LATEST REVISIONS.
- SANITARY SEWER PIPE SHALL BE AS SHOWN ON THE CONSTRUCTION PLANS AND AS DESCRIBED IN THE SPECIAL PROVISIONS
- SEWER LINES SHALL BE LOCATED AT LEAST 10 FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED WATER MAIN OR SERVICE CONNECTION. THE SEWER LINE SHALL BE SEPARATED FROM A WATER MAIN SO THAT ITS CROWN IS A MINIMUM OF 18 INCHES BELOW THE INVERT OF THE WATER MAIN OR SERVICE EXCEPT AS PROVIDED IN THESE PLANS OR IN THE SPECIAL PROVISIONS.
- ALL MANHOLES SHALL BE TYPE "A" IN DESIGN AND 4' MIN. IN DIAMETER. EQUIPPED WITH A-LOCK RUBBER GASKETS. RISERS AND SLABS SHALL BE ACCORDING TO ASTM C478. LIFTING HOLE SHALL BE PROVIDED IN THE BASES AND RISERS. LIFTING HOOKS SHALL BE PROVIDED IN FLAT SLABS. MANHOLE STEPS SHALL BE CONSTRUCTED OF COPOLYMER POLYPROPYLENE PLASTIC.
- MANHOLES (LEAKAGE TESTING)-PRIOR TO PLACING THE COMPLETED SANITARY SYSTEM IN SERVICE, EACH MANHOLE SHALL BE TESTED FOR LEAKAGE ACCORDING TO ASTM C1244-02. FAILING MANHOLES SHALL BE REPAIRED AND RETESTED AS NECESSARY TO ACHIEVE AN ACCEPTABLE RESULT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE REQUIRED SLOPE ON ALL SANITARY SEWER PIPE AND THE REQUIRED ELEVATIONS OF ALL MANHOLES. MINIMUM SLOPE FOR ALL SANITARY SEWER SERVICE PIPE SHALL BE 1/8" PER FOOT.
- CONTRACTOR SHALL PROVIDE 48 HOUR NOTICE OF TESTING FOR OBSERVATION BY VILLAGE OF HARTFORD PUBLIC WORKS DEPARTMENT PERSONNEL.
- THE END OF EACH SERVICE LATERAL SHALL BE MARKED WITH A TREATED 2" BY 4" STAKE LEFT AT LEAST 3 FEET ABOVE THE FINISHED GRADE.
- ALL DISTURBED AREAS, FOR WHATEVER REASON, SHALL BE GRADED TO AS NEAR ITS ORIGINAL STATE AND SEEDED ACCORDING TO THE SPECIAL PROVISIONS.
- SEE TRENCH DETAIL, SHEET C-03 FOR SANITARY SEWER INSTALLATION-OPEN CUT INSTALLATION (IF NECESSARY).

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**LEWIS AND CLARK
MEMORIAL TOWER**
HARTFORD, ILLINOIS 62048

SHEET TITLE:
SANITARY SEWER DETAILS

DATE	REMARKS

KENNEDY PROJECT NO
10-02048

ISSUE DATE

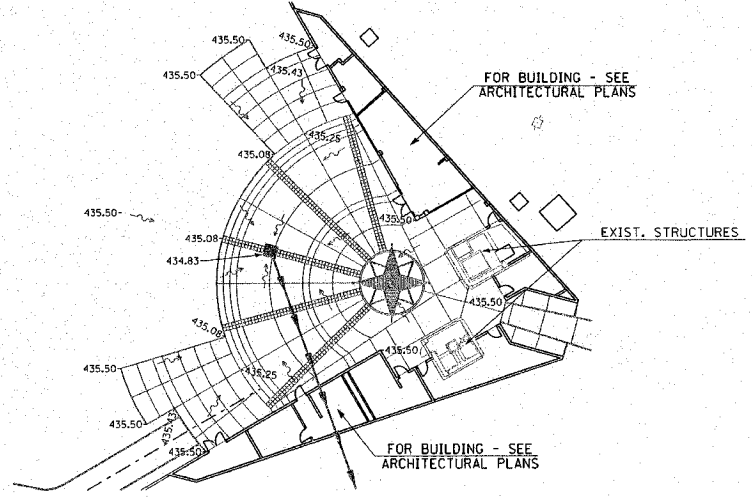
SHEET NO.

C-04

UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS AND, THEREFORE, THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS THE EXISTENCE OF WHICH IS AT PRESENT NOT KNOWN. VERIFICATION OF THE LOCATIONS OF UNDERGROUND UTILITIES, SHOWN OR NOT SHOWN, WILL BE THE RESPONSIBILITY OF THE CONSTRUCTION CONTRACTOR.

T.B.M. #1 - IRON PIN 365.1' NORTH OF CENTER OF CUL-DE-SAC AND 21.2' WEST OF CENTER LINE, ELEV. 437.18

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	03-00026-00-PK 06-00026-01-MS	MADISON	53	7

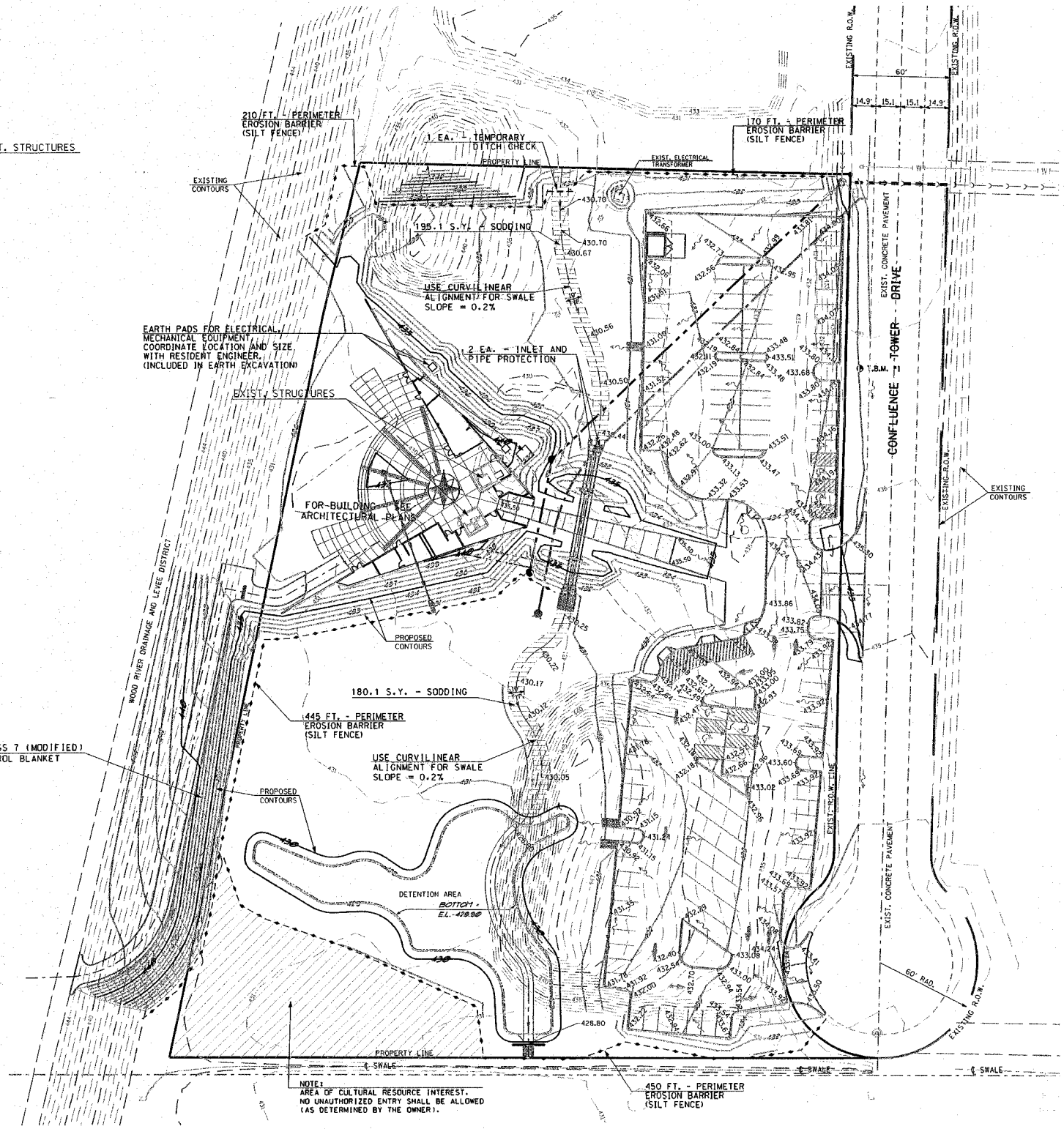


PLAZA DETAIL
1" = 20'

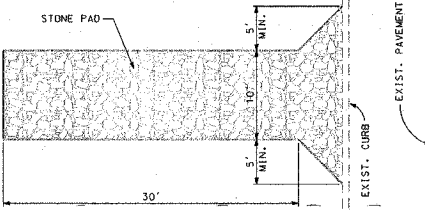
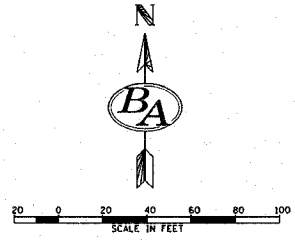


Call 48 hours before you dig!!
(Excluding Sat., Sun. & Holidays)

- LEGEND**
- EXISTING DECIDUOUS TREE
 - EXISTING BUSH
 - EXISTING EVERGREEN TREE
 - EXISTING VEGETATION LINE
 - EXISTING FIRE HYDRANT
 - EXISTING GAS METER
 - EXISTING GAS VALVE
 - EXISTING CITY WIRE
 - EXISTING POWER POLE
 - EXISTING LIGHTED POWER POLE
 - EXISTING LIGHT STANDARD
 - EXISTING MAILBOX
 - EXISTING MANHOLE
 - EXISTING GRATE MANHOLE
 - EXISTING CABLE PEDESTAL
 - EXISTING ELECTRIC PEDESTAL
 - EXISTING TELEPHONE PEDESTAL
 - EXISTING R.O.W. MARKER
 - EXISTING SIGN
 - EXISTING WATER METER
 - EXISTING WATER VALVE
 - EXISTING POST
 - EXISTING DITCH FLOWLINE
 - EXISTING UNDERGROUND CABLE TV
 - EXISTING UNDERGROUND ELECTRIC
 - EXISTING UNDERGROUND FORCE MAIN
 - EXISTING UNDERGROUND GAS
 - EXISTING UNDERGROUND WATER LINE
 - EXISTING UNDERGROUND TELEPHONE
 - EXISTING SANITARY SEWER
 - EXISTING STORM SEWER
 - EXISTING FENCE LINE
 - EXISTING GUARDRAIL
 - PROPOSED MANHOLE
 - PROPOSED TYPE X INLET
 - PROPOSED AREA INLET
 - PROPOSED FIRE HYDRANT
 - PROPOSED SIGN
 - PROPOSED SANITARY SEWER
 - PROPOSED STORM SEWER
 - PROPOSED WATER LINE
 - PROPOSED DITCH FLOWLINE
 - EXISTING CONTOUR
 - EXISTING CONTOUR
 - PROPOSED CONTOUR
 - PROPOSED CONTOUR
 - PERIMETER EROSION BARRIER (SILT FENCE)



NOTE:
AREA OF CULTURAL RESOURCE INTEREST.
NO UNAUTHORIZED ENTRY SHALL BE ALLOWED
(AS DETERMINED BY THE OWNER).



- NOTES:
1. STONE SIZE: ASTM D448 SIZE #1 (1 1/2" TO 3 1/2" DIA.)
 2. PAD THICKNESS 12"
 3. MAY REQUIRE PERIODIC TOP DRESSING WITH 2" STONE.
 4. MAINTAIN IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC ROADS.

CONSTRUCTION ACCESS
NOT TO SCALE
ENGINEER TO LOCATE IN FIELD
SEE SPECIAL PROVISIONS

EARTHWORK SCHEDULE	
EARTH EXCAVATION	14,798 C.Y.
EARTH EXCAVATION ADJUSTED FOR SHRINKAGE	11,099 C.Y.
EMBANKMENT	9,610 C.Y.
EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)	+ 1,489 C.Y.

THIS REPRESENTS THE APPROXIMATE VOLUME FOR THIS PROJECT.

- SITE GRADING NOTES:**
1. ALL SITE WORK IS TO BE DONE ACCORDING TO THE ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, ADOPTED JANUARY 1, 2007 AND LATEST REVISIONS, EXCEPT AS PROVIDED ON THESE PLANS OR IN THE CONTRACT DOCUMENTS.
 2. EACH CONTRACTOR IS RESPONSIBLE FOR KEEPING THE CONSTRUCTION SITE FREE OF DEBRIS AND KEEPING DIRT OFF OF ADJACENT STREETS. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES INTO STORM DRAINS MUST BE REMOVED.
 3. PRIOR TO ANY CONSTRUCTION, A STABILIZED CONSTRUCTION ACCESS SHALL BE CONSTRUCTED BY THE CONTRACTOR ACCORDING TO THE SPECIAL PROVISIONS AND THE DETAIL SHOWN HEREON.
 4. THE MAXIMUM SLOPE SHALL BE 2:1 FOR EARTH SLOPES, UNLESS SHOWN OTHERWISE.
 5. COMPACTION OF THE SOIL UNDER ALL FUTURE CONSTRUCTION SHALL BE 95% STANDARD PROCTOR DENSITY.
 6. EACH FILL OR BACKFILL SOIL LAYER SHALL BE MOISTENED OR AERATED TO WITHIN 2% OF THE OPTIMUM MOISTURE CONTENT BEFORE COMPACTION.
 7. SPOT ELEVATIONS ARE "TOP OF FINISHED PAVEMENT". SEE SHEET C-02 FOR PAVEMENT DETAILS.
 8. ACCESSIBLE PARKING SPACES SHALL HAVE A MAXIMUM SLOPE OF 2% IN ALL DIRECTIONS.

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Fax: (314) 541-0225



**LEWIS AND CLARK
MEMORIAL TOWER**

**GRADING PLAN
EROSION CONTROL PLAN**

REV. NO.	DATE	REMARKS

KENNEDY PROJECT NO
10-02048

ISSUE DATE

SHEET NO.
C-06

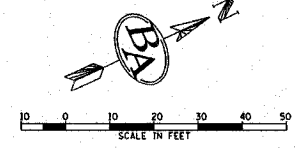
HARTFORD, ILLINOIS 62048

UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS AND, THEREFORE, THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS THE EXISTENCE OF WHICH IS AT PRESENT NOT KNOWN. VERIFICATION OF THE LOCATIONS OF UNDERGROUND UTILITIES, SHOWN OR NOT SHOWN, WILL BE THE RESPONSIBILITY OF THE CONSTRUCTION CONTRACTOR.



Joint Utility Locating Information for Excavators

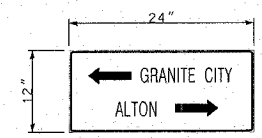
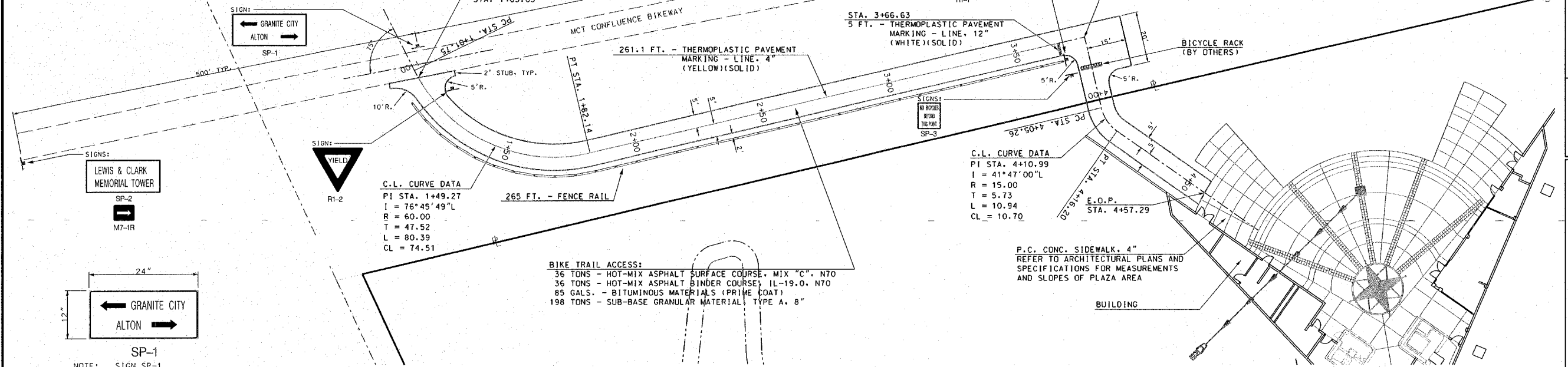
Call 48 hours before you dig!! (Excluding Sat., Sun. & Holidays)



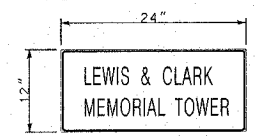
T.B.M. #1 - IRON PIN 365.1' NORTH OF CENTER OF CUL-DE-SAC AND 21.2' WEST OF CENTER LINE. ELEV. 437.18

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	03-00026-00-PK 06-00026-01-M5	MADISON	53	9

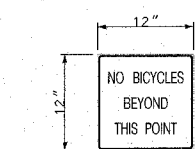
SIGN	TYPE	SIZE	LETTERS/BACKGROUND	QUAN.	S.F.	POST
M7-1L	DIRECTION	12" x 9"	WHITE ON GREEN	1	0.75	12"
M7-1R	DIRECTION	12" x 9"	WHITE ON GREEN	1	0.75	12"
RI-1	STOP	18" x 18"	WHITE ON RED	1	2.25	12"
RI-2	YIELD	18" x 18"	RED ON WHITE	1	2.25	12"
SP-1	INFORMATION	24" x 12"	WHITE ON GREEN	1	2.00	12"
SP-2	INFORMATION	24" x 12"	WHITE ON BROWN	2	4.00	24"
SP-3	INFORMATION	12" x 12"	BLACK ON WHITE	1	1.00	12"
SP-4	INFORMATION	24" x 12"	BLACK ON WHITE	1	2.00	12"
TOTAL				QUAN. 15.00	108'	



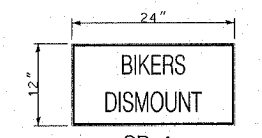
SP-1
NOTE: SIGN SP-1 ALL LETTERS AND SYMBOLS TO BE 4" HIGH WHITE LETTERS ON GREEN BACKGROUND



SP-2
NOTE: SIGN SP-2 ALL LETTERS AND SYMBOLS TO BE 4" HIGH WHITE LETTERS ON BROWN BACKGROUND



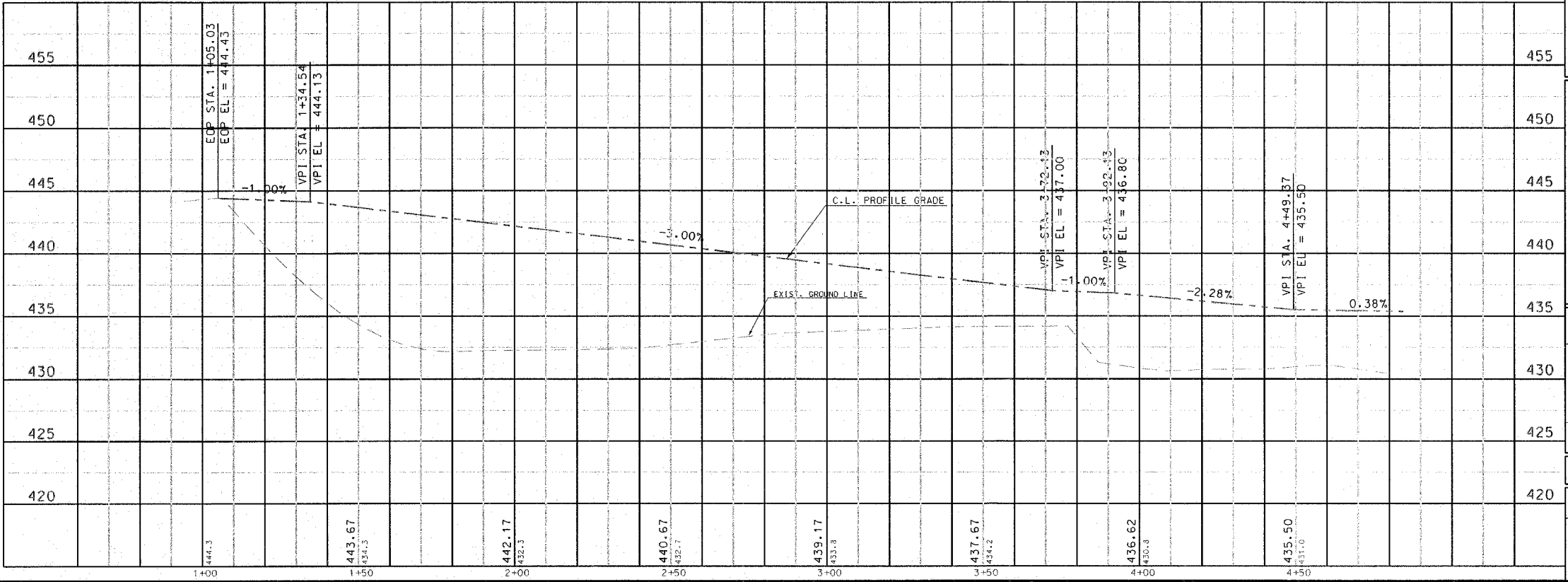
SP-3
NOTE: SIGN SP-3 ALL LETTERS AND SYMBOLS TO BE 3" HIGH BLACK LETTERS ON WHITE BACKGROUND



SP-4
NOTE: SIGN SP-4 ALL LETTERS AND SYMBOLS TO BE 4" HIGH BLACK LETTERS ON WHITE BACKGROUND

TRAFFIC CONTROL SIGNS, DETAILS
NOT TO SCALE

BIKE TRAIL ACCESS:
36 TONS - HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70
36 TONS - HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70
85 GALS. - BITUMINOUS MATERIALS (PRIME COAT)
198 TONS - SUB-BASE GRANULAR MATERIAL, TYPE A, 8"



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LEWIS AND CLARK
MEMORIAL TOWER
HARTFORD, ILLINOIS 62633

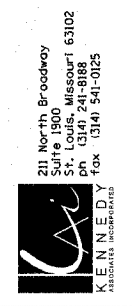
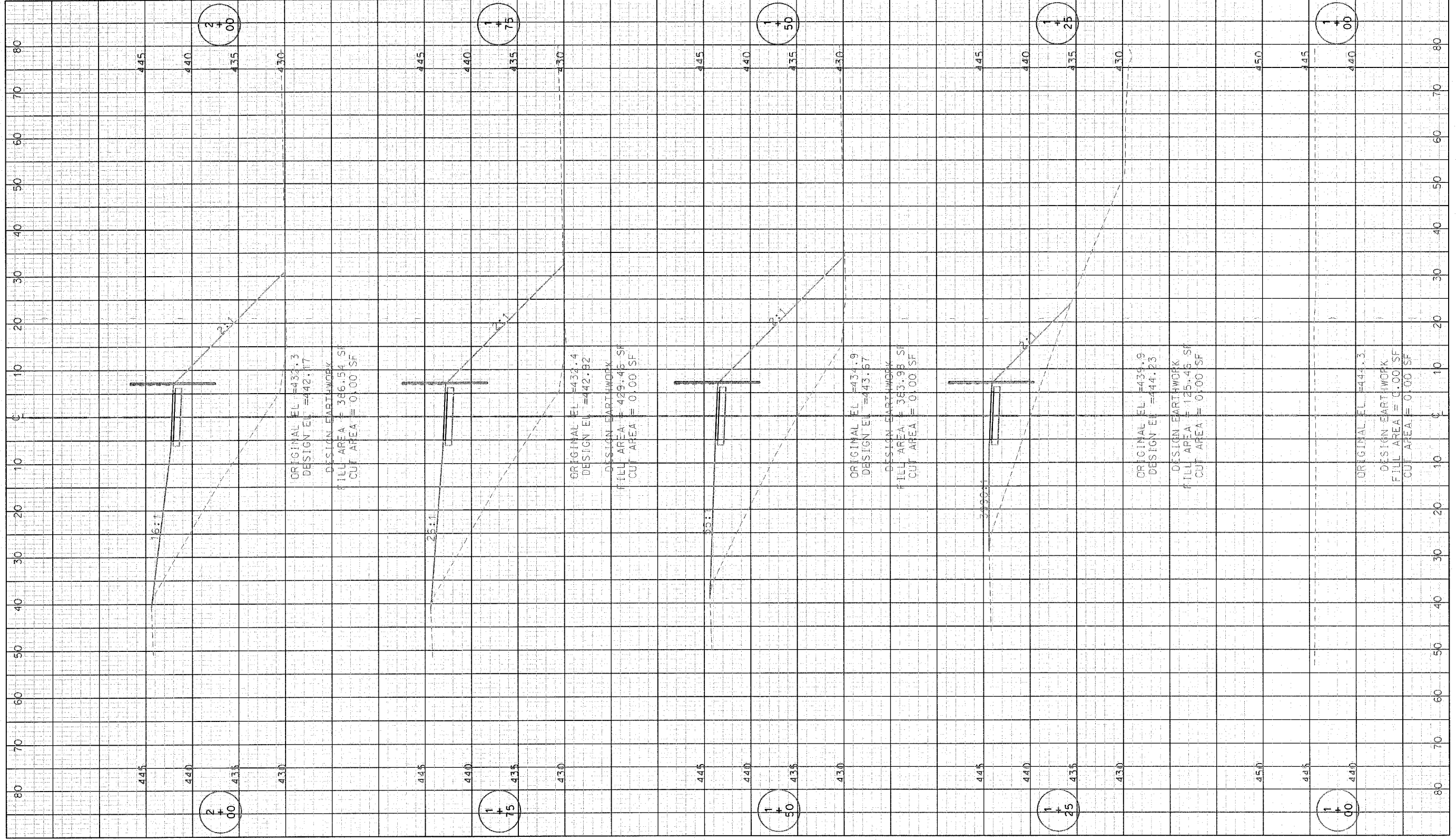
SHEET TITLE:
BIKE TRAIL ACCESS
PLAN AND PROFILE

REV. NO.	DATE	REMARKS

KENNEDY PROJECT NO
10-02048

ISSUE DATE
SHEET NO.
C-08

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	03-00026-00-PK 06-00026-01-M5	MADISON	53	ID



LEWIS AND CLARK MEMORIAL TOWER
VILLAGE OF HARTFORD, ILLINOIS
 140 WEST HAWTHORNE
 HARTFORD, ILLINOIS 62048

SHEET TITLE:
**BIKE TRAIL ACCESS
 CROSS SECTIONS**

REV. NO.	REMARKS	DATE

KENNEDY PROJECT NO
 10-02048

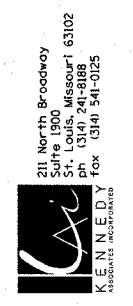
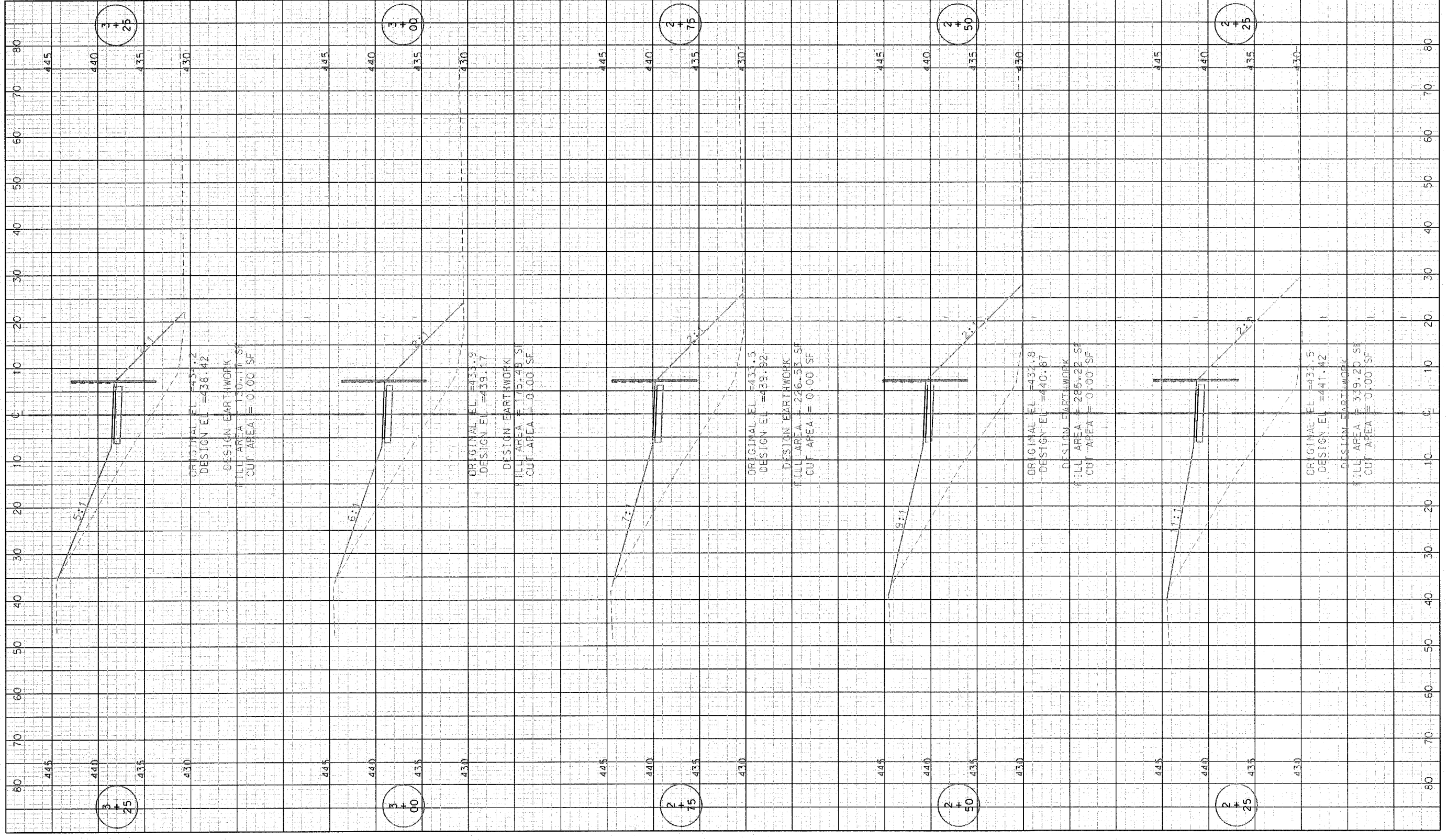
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F.A. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	03-00026-00-PK 06-00026-01-MS	MADISON	53	11



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SHEET TITLE:
BIKE TRAIL ACCESS
CROSS SECTIONS

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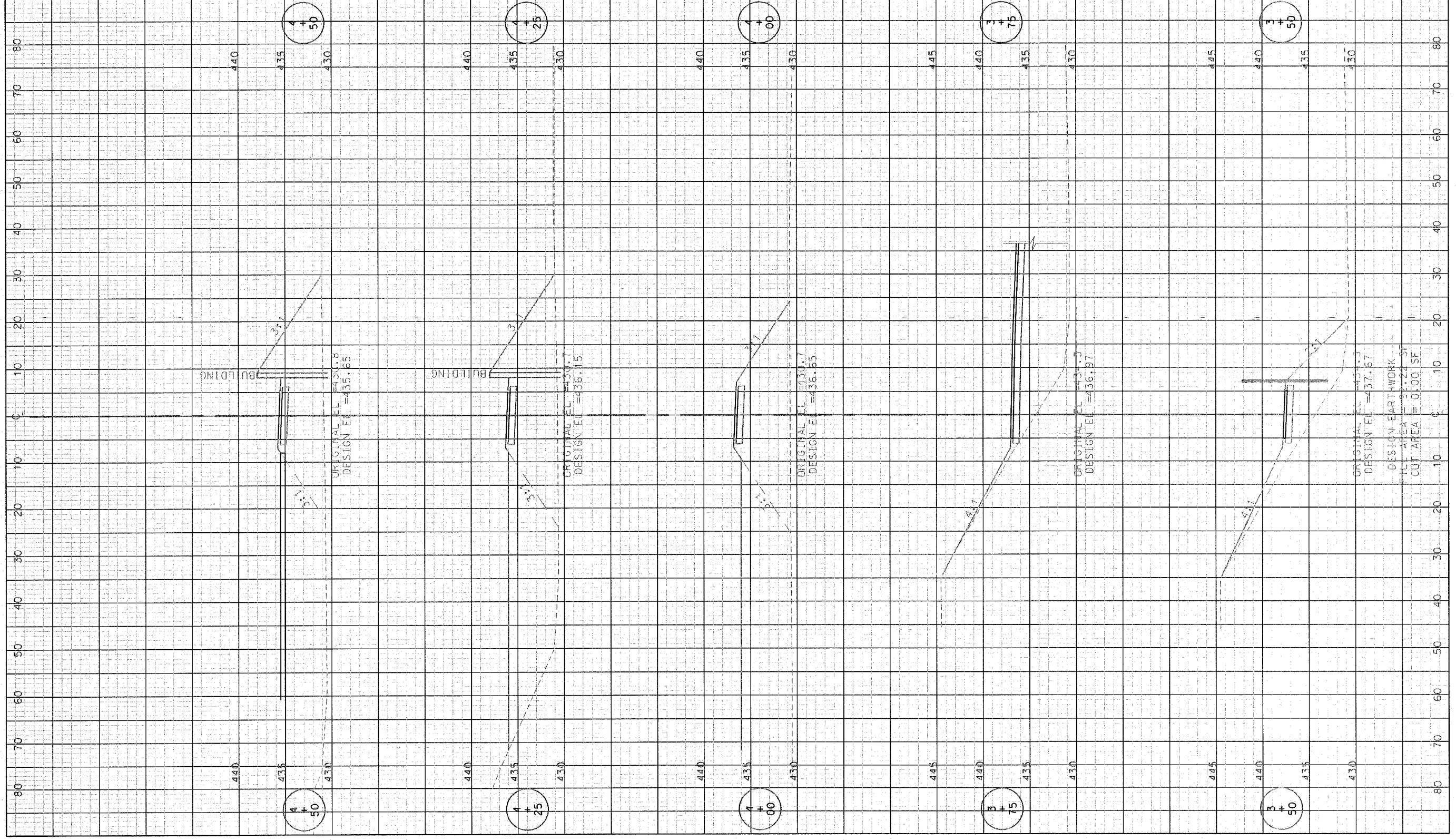
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P.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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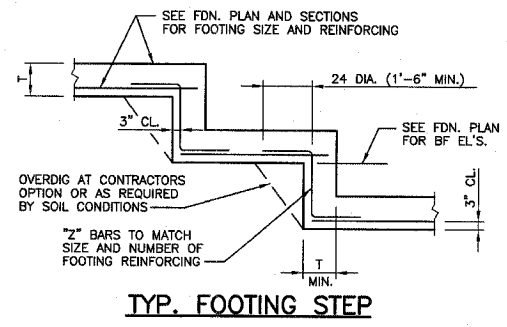
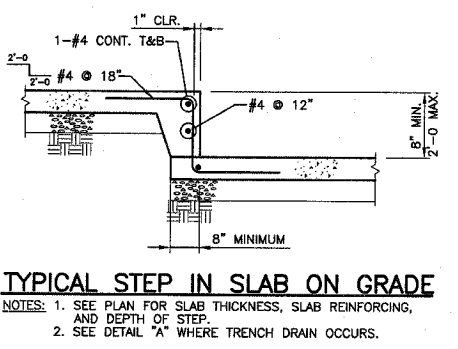
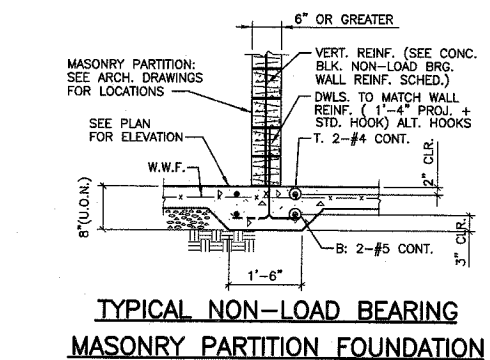
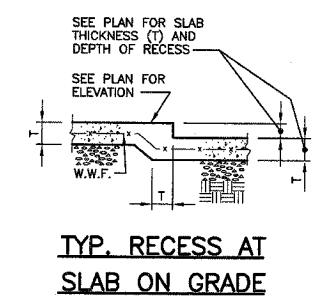
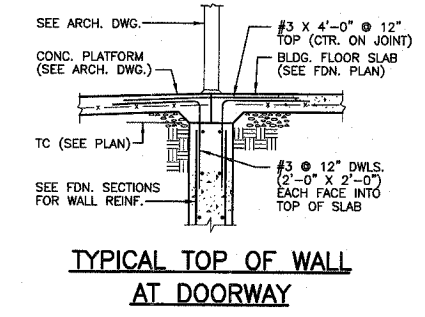
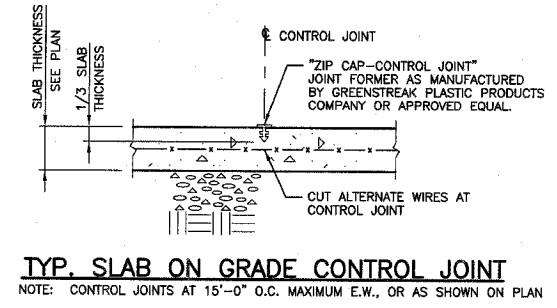
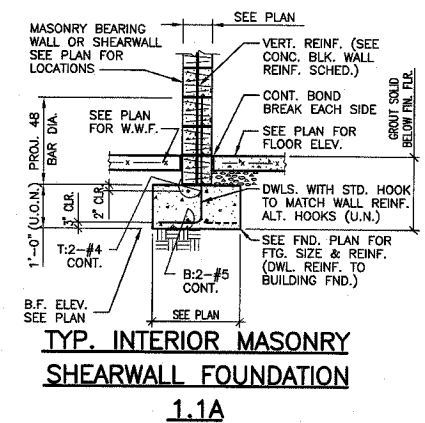
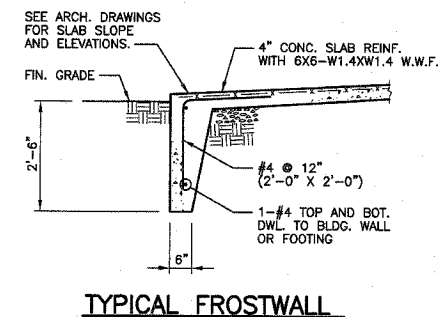
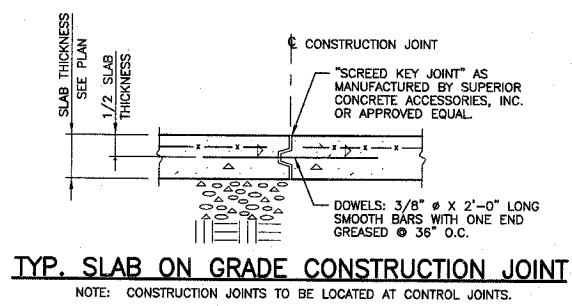
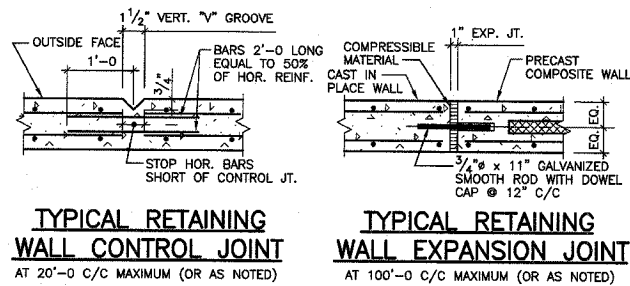
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GENERAL NOTES
IN FIELD LAYOUT AND SHOP DETAILING, THE CONTRACTOR MUST VERIFY AND COORDINATE DIMENSIONS ON ARCHITECTURAL, MECHANICAL AND STRUCTURAL DRAWINGS AND REPORT ANY DISCREPANCIES TO THE ARCHITECT. ALL EXISTING DIMENSIONS AND CONDITIONS MUST BE FIELD VERIFIED BY CONTRACTOR.

FOUNDATIONS

- FOOTINGS HAVE BEEN PROPORTIONED FOR A NET MAXIMUM BEARING PRESSURE OF 2500 P.S.F. FOR ISOLATED COLUMN FOOTINGS & 2000 P.S.F. FOR CONTINUOUS FOOTINGS.
- FOOTINGS MUST EXTEND 2'-6" BELOW FINISHED GRADE, AND ARE TO BEAR ON UNDISTURBED SOIL OR ENGINEERED COMPACTED FILL.

GENERAL CONCRETE NOTES

- ALL CONCRETE SHALL BE NORMAL WEIGHT CONCRETE. SEE SCHEDULE THIS SHEET AND SPECIFICATION FOR CONCRETE STRENGTH.
- REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60 STEEL, UNLESS NOTED OTHERWISE.
- ALL DETAILING, FABRICATION AND PLACEMENT OF BARS AND THEIR SUPPORT IN THE FORMS WITH ACCESSORIES, UNLESS NOTED OTHERWISE, MUST FOLLOW THE ACI "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES" (ACI 315 LATEST). REINFORCING STEEL PLACING DRAWINGS WILL MEET THE FOLLOWING MINIMUM REQUIREMENTS IN ADDITION TO THOSE STATED ABOVE:
 - REINFORCING PLACING DRAWINGS FOR SLABS, BEAMS, JOISTS ETC. WILL BE SHOWN ON PLANS DRAWN TO A MINIMUM SCALE OF 1/8" = 1'-0". MINIMUM SHEET SIZE WILL BE 24" X 36".
 - REINFORCING FOR FOUNDATION WALLS, RETAINING WALLS, SHEAR WALLS ETC. WILL BE SHOWN ON ELEVATIONS DRAWN TO A MINIMUM SCALE OF 1/4" = 1'-0".
 - REINFORCING FOR BEAMS, COLUMNS AND SLABS MUST BE CLEARLY SHOWN IN SCHEDULES SIMILAR TO THOSE ON THE STRUCTURAL DRAWINGS. COMPUTER PRINT-OUTS ATTACHED TO LARGER SHEETS AND REPRODUCED AS SHOP DRAWINGS WILL NOT BE PERMITTED.
 - LOCATION OF REINFORCING NOT CLEARLY DESCRIBED IN SCHEDULED FORMAT MUST BE REFERENCED ON PLACING PLANS.
- CONCRETE COVER OVER MAIN REINFORCING SHALL BE AS FOLLOWS: FOOTINGS 3", COLUMNS AND BEAMS 2" SOLID SLABS 1" AND WALLS 2" WHERE EXPOSED TO WEATHER OR GROUND AND 1" FOR INTERIOR SURFACES.
- ALL BARS IN WALLS AND GRADE BEAMS AND TEMPERATURE BARS IN SLABS SHALL LAP A MINIMUM OF 30 DIAMETERS (24" MIN.). SEE PLAN FOR SPECIAL REQUIREMENTS FOR BEAMS, COLUMNS, ETC. ANY SPLICE OF BARS OTHER THAN SHOWN ON PLANS MUST HAVE PRIOR APPROVAL OF THE ENGINEER.
- WELDED WIRE FABRIC MUST LAP A MINIMUM OF 1'-0" AND SHALL EXTEND 1'-0" INTO SUPPORTING BEAMS AND WALLS UNLESS EXPANSION JOINT IS CALLED FOR. WELDED WIRE FABRIC SHALL BE PLACED ON TOP OF ALL OTHER BARS, SLEEVES, CONDUITS, ETC.
- PROVIDE THE FOLLOWING ADDITIONAL REINFORCING UNLESS OTHERWISE CALLED FOR ON STRUCTURAL PLANS:
 - 2-#5 BARS EACH SIDE OF 12" OR LARGER OPENINGS IN SLABS AND WALLS.
 - CORNER BARS (2'-0" X 2'-0") IN OUTER FACE OF ALL CONCRETE WALLS AND GRADE BEAMS TO MATCH SIZE AND SPACING OF BARS IN WALL OR BEAM.
 - WALLS, UNLESS NOTED OTHERWISE, #4@12" EACH WAY, EACH FACE AND 2-#5 TOP AND BOTTOM.
- ALL DOWELS MUST BE IN POSITION BEFORE PLACING CONCRETE IS NOT ACCEPTABLE. PROVIDE ADDITIONAL SUPPORT BARS AS NECESSARY TO KEEP DOWELS IN PLACE.
- ALL STRUCTURAL STEEL MUST BE PROTECTED BY 3" OF CONCRETE WHERE EARTH WOULD OTHERWISE BE IN CONTACT WITH STEEL.
- ALL ABUTTING CONC. SHALL BE DOWELED TOGETHER UNLESS POURED MONOLITHIC. DOWELS SHALL BE EQUAL IN SIZE AND SPACING TO THE REINFORCING IN THE ABUTTING MEMBERS.
- WHEN FOUNDATION WALLS SPAN FROM GROUND FLOOR TO FIRST FLOOR, BOTH GROUND FLOOR SLAB AND FIRST FLOOR SLAB MUST BE IN PLACE BEFORE BACKFILL IS PLACED, UNLESS NOTED OTHERWISE.
- THE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS MUST BE REFERRED TO FOR ALL FLOOR, ROOF AND WALL REQUIREMENTS SUCH AS SLEEVES, OUTLET BOXES, ANCHORS, VENT OPENINGS, ETC. THAT MAY BE REQUIRED. HOLES OR NOTCHES WILL NOT BE ALLOWED IN ANY CONCRETE FRAMING UNLESS SIZE AND LOCATION HAVE BEEN APPROVED BY THE ENGINEER.
- WHERE EPOXY DOWELS ARE INDICATED, INSTALL PER MANUFACTURERS RECOMMENDATIONS WITH ITW RAMSET/REDHEAD EPOXY SYSTEM, SIMPSON EPOXY-TIE ADHESIVE OR ANCHOR-IT EPOXY SYSTEM.

CONCRETE STRENGTH SCHEDULE

MEMBER	28 DAY COMPRESSIVE STRENGTH (fc)
CAST IN PLACE WALL	4,000 PSI
ALL OTHERS INCLUDING: FOOTING, ETC.	3,500 PSI

CONCRETE BLOCK WALL REINFORCING SCHEDULE

NOMINAL BLOCK THICKNESS	VERTICAL REINFORCING (GROUT SOLID)	HORIZONTAL REINFORCING (GALVANIZED)			
		TYPE	SIDE ROD	CROSS ROD	SPACING
6"	#4 @ 24" (2'-6" LAP)	LADDER	0.148"φ	0.148"φ	16"
8"	#5 @ 32" (2'-6" LAP)	LADDER	0.188"φ	0.148"φ	16"
12"	#6 @ 32" (3'-0" LAP)	LADDER	0.188"φ	0.148"φ	16"

NOTE: FOOTING DOWELS TO MATCH WALL REINFORCING (TYP. U.N.O.).

DESIGN INFORMATION

- BUILDING CODE: BOCA 1999
- FLOOR LIVE LOADS (PSF): N/A
- ROOF LIVE LOAD (PSF): 30
- ROOF SNOW LOAD:
 - GROUND SNOW LOAD (PSF), Pg = 20
 - FLATROOF SNOW LOAD (PSF), Pr = 14
 - SNOW EXPOSURE FACTOR, Ce = 0.9
 - SNOW IMPORTANCE FACTOR, I = 1.0
 - ROOF THERMAL FACTOR, Ct = 1.0
- WIND LOAD:
 - BASIC WIND SPEED (MPH): 70
 - WIND LOAD IMPORTANCE FACTOR, I = 1.0
 - WIND EXPOSURE: C
- EARTHQUAKE DESIGN DATA:
 - PEAK VELOCITY-RELATED ACCELERATION, Av = 0.13
 - PEAK ACCELERATION, Ag = 0.12
 - SEISMIC HAZARD EXPOSURE GROUP: I
 - SEISMIC PERFORMANCE CATEGORY: C
 - SOIL PROFILE TYPE: S3
- F. BASIC STRUCTURAL SYSTEM: LOAD BRG. WALL
- G. SEISMIC RESISTING SYSTEM: REINF. MASONRY SHEARWALL
- H. RESPONSE MODIFICATION FACTOR, R = 4.5
- I. DEFLECTION AMPLIFICATION FACTOR, Cd = 4
- J. SEISMIC ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE

ABBREVIATION LIST

BD = BOTTOM OF DECK
BF = BOTTOM OF FOOTING
BP = BEAM POCKET
BS = BRICK SHELF
BW = BOTTOM OF WALL PENETRATION
CJP = COMPLETE JOINT
CP = COLUMN POCKET
CS = CONCRETE SHELF
SW = SHEAR WALL
TC = TOP OF CONCRETE
TF = TOP OF FOOTING
TP = TOP OF PIER
TS = TOP OF STEEL
TW = TOP OF WALL
UNO = UNLESS NOTED OTHERWISE

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HARTFORD, ILLINOIS 62049

TYPICAL DETAILS & GENERAL NOTES

SHEET TITLE: TYPICAL DETAILS & GENERAL NOTES

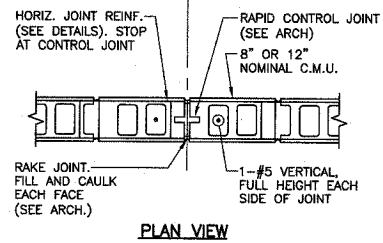
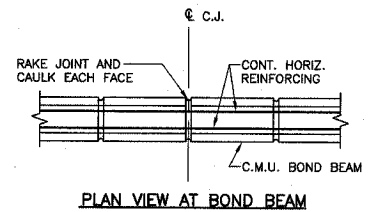
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ISSUE DATE: 11-APRIL-08

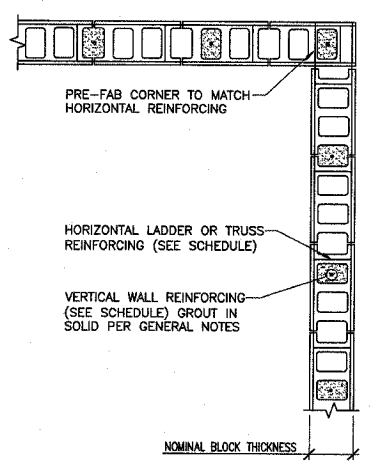
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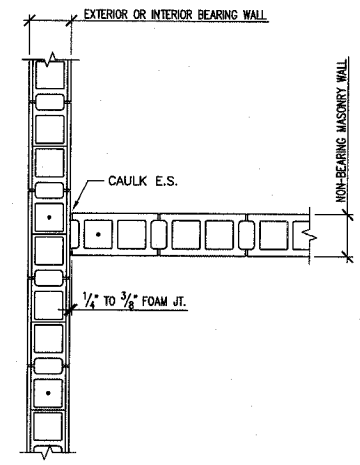
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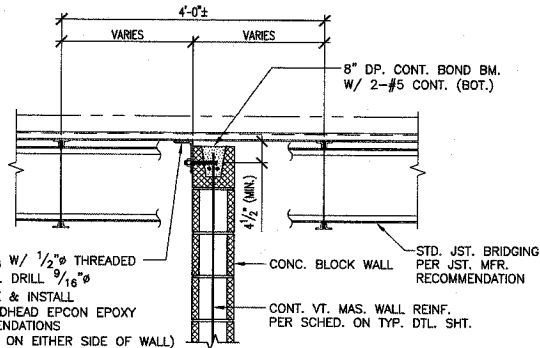
TYPICAL MASONRY WALL CONTROL JOINT
SEE MASONRY NOTE #17 FOR LOCATION OF CONTROL JOINTS.



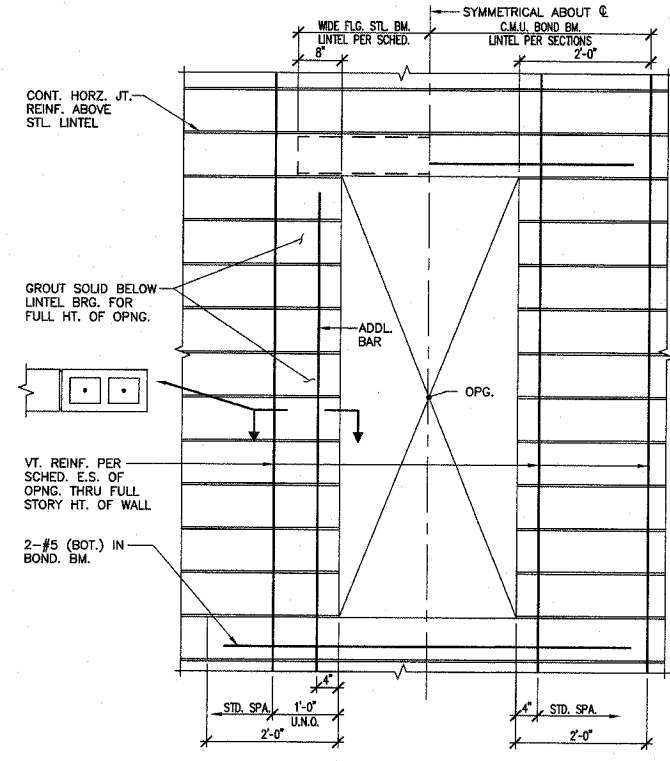
TYP. REINFORCED MASONRY WALL



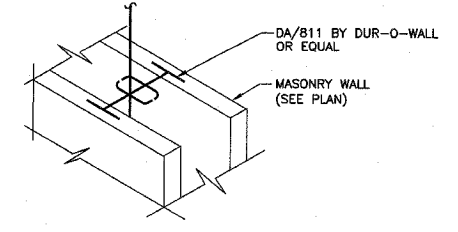
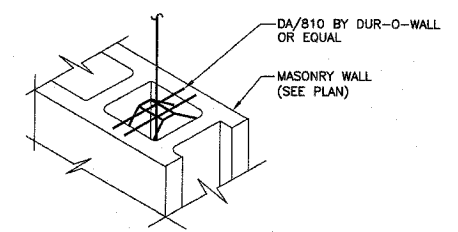
TYP. INTERSECTION @ BEARING & NON-BEARING MASONRY WALLS
NOTE: NON-BEARING MASONRY WALLS SHOWN ON ARCHITECTURAL PLANS ONLY.



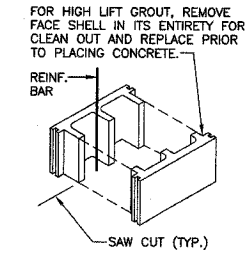
TYPICAL MASONRY SHEARWALL CONNECTION @ ROOF DECK
NOTE: SEE PLAN FOR SHEARWALL (SW) LOCATION



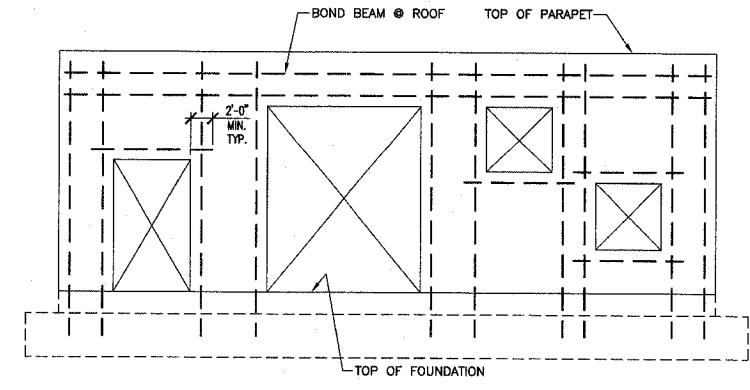
TYP. REINFORCING @ MASONRY WALL OPENING



MASONRY WALL VERTICAL BAR POSITIONER



TYP. CLEAN OUT DET. FOR HIGH LIFT GROUT



TYPICAL WALL ELEVATION SHOWING REINFORCING AT MASONRY OPENING

GENERAL CONCRETE MASONRY NOTES

1. CONCRETE MASONRY UNITS (CMU) SHALL BE LIGHTWEIGHT CELLULAR UNITS CONFORMING TO ASTM C90, GRADE N-1. CONCRETE MASONRY UNIT STRENGTH SHALL BE NO LESS THAN 2800 PSI ON THE NET AREA IN ACCORDANCE WITH ASTM C140, & AN UNIT WEIGHT NOT EXCEEDING 105 PCF. ALL AGGREGATE SHALL CONFORM TO ASTM C-331. SEE SPECIFICATIONS.
2. DESIGN COMPRESSIVE STRENGTH OF CONCRETE MASONRY (F_m) = 2000 PSI.
3. MORTAR SHALL CONFORM TO ASTM C270. MORTAR SHALL BE TYPE S. GROUT SHALL CONFORM TO ASTM C-476.
4. BOND BEAMS AND REINFORCED MASONRY WALLS SHALL BE FILLED WITH GROUT, NOT MORTAR, WHERE SHOWN.
5. FOUNDATION DOWELS MAY BE SLOPED NO MORE THAN 1:6 TO ALIGN WITH WALL CAVITIES OR VERTICAL CMU CORES.
6. SPLICED REINFORCING SHALL BE LAPPED 48 BAR DIAMETERS OR 24", WHICHEVER IS GREATER, UNLESS OTHERWISE SHOWN ON DRAWINGS. ALL SPLICES SHALL BE WIRED TOGETHER.
7. VERTICAL REINFORCING BARS SHALL HAVE A MINIMUM CLEARANCE OF 3/4" FROM MASONRY AND SHALL BE HELD IN POSITION TOP AND BOTTOM AND AT INTERVALS NOT EXCEEDING 4'-0". ACCESSORIES FOR SUCH SUPPORT SHALL BE USED.
8. REINFORCING SHALL BE SECURED IN PLACE AND INSPECTED PRIOR TO ANY GROUTING.
9. VERTICAL GROUTING SHALL BE LOW LIFT OR HIGH LIFT AS FOLLOWS:
 - A. LOW LIFT GROUTING SHALL BE USED FOR ALL CAVITY WALLS AND MAY BE USED FOR ALL WALLS AT THE OPTION OF THE CONTRACTOR. LIFTS SHALL NOT EXCEED 5'-0" IN HEIGHT.
 - B. HIGH LIFT GROUTING IS PERMISSIBLE ONLY FOR SINGLE WYTHE WALLS AND SHALL NOT EXCEED ONE STORY IN HEIGHT. CLEAN OUT HOLES SHALL BE PROVIDED AT THE BASE OF EACH GROUTED CELL. SEE SPECIAL DETAIL.
10. GROUTING SHALL BE STOPPED 1-1/2" BELOW THE TOP OF A COURSE TO FORM A KEY AT THE JOINT.
11. GROUTING OF MASONRY BEAMS OR LINTELS SHALL BE DONE IN ONE CONTINUOUS OPERATION.
12. CONTRACTOR SHALL PROVIDE TEST REPORTS ON MASONRY UNITS SHOWING UNIT WEIGHT, COMPRESSIVE STRENGTH, ABSORPTION, VOLUME CHANGE AND SHRINKAGE PER ASTM C90 NO LATER THAN 15 WORKING DAYS PRIOR TO THE COMMENCEMENT OF MASONRY CONSTRUCTION.
13. HORIZONTAL JOINT REINFORCEMENT SHALL BE AT 16" O.C.
14. PROVIDE #4 X 3'-0" DOWELS AT 48" C.C. FROM FOUNDATION INTO MASONRY WALL UNLESS NOTED OTHERWISE. PROJECT 1'-4" INTO MASONRY WALL.
15. HORIZONTAL JOINT REINFORCING SHALL STOP AT CONTROL JOINTS.
16. REINFORCING IN BOND BEAMS SHALL RUN CONTINUOUS THRU CONTROL JOINTS.
17. PROVIDE CONTROL JOINTS IN EXTERIOR CONCRETE BLOCK WALLS AT LOCATIONS SHOWN ON ARCHITECTURAL DRAWINGS, IN LINE WITH CONTROL JOINTS IN BRICK, UNLESS NOTED OTHERWISE. FOR ALL BEARING WALLS, PROVIDE CONTROL JOINTS AT A MAXIMUM OF 24'-0" CENTER TO CENTER, UNLESS NOTED OTHERWISE.
18. CONTRACTOR TO PROVIDE ADEQUATE BRACING FOR ALL MAS. WALLS UNTIL PERMANENT SUPPORT STRUCTURES ARE IN PLACE.

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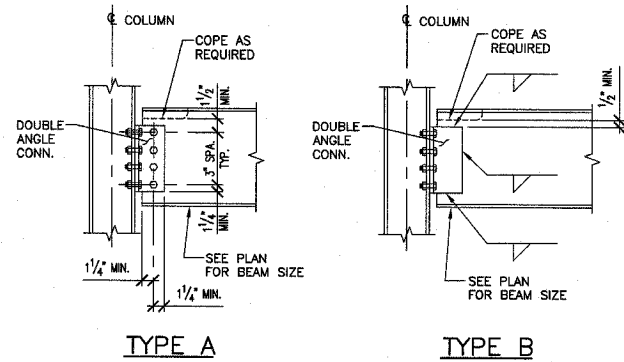
SHEET TITLE:
TYPICAL DETAILS & GENERAL NOTES

REV. NO.	DATE	REMARKS

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KAI# 10-02048

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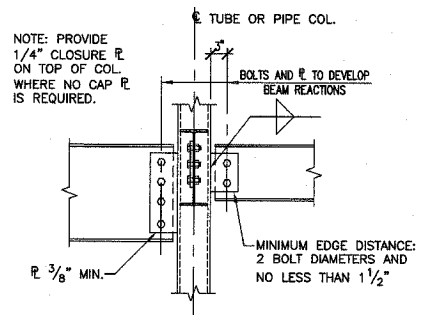
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S1.2



TYPE A **TYPE B**
TYPICAL BEAM TO WIDE FLANGE COLUMN CONNECTION
 BEAM TO BEAM CONNECTION SIMILAR

- NOTES:
1. EITHER TYPE "A" OR "B" CONNECTION IS ACCEPTABLE.
 2. BOLTS TO BE A325 (TYPE N) 3/4" DIAMETER MIN.
 3. WELDS TO BE A.W.S. E70 ELECTRODE.
 4. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
 5. CONNECTIONS SHALL BE SIZED PER A.I.S.C. (9TH EDITION) "UNIFORM LOAD TABLES" FOR END REACTIONS OR REACTIONS SHOWN ON PLAN, WHICHEVER IS HIGHER.
 6. ONE SIDED CONNECTIONS WILL NOT BE PERMITTED.
 7. MIN. CONNECTION ANGLE THICKNESS 5/16".
 8. SEE SCHEDULE "A" FOR MIN. NUMBER OF BOLTS IN A ROW FOR EACH BM. SIZE.

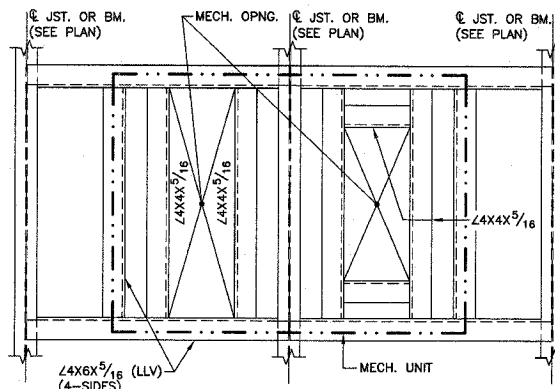
SCHEDULE A							
BEAM DEPTH	6"	8",10"	12",14"	16",18"	21",24"	27",30"	33",36"
MINIMUM NO. OF BOLTS	2	2	3	4	5	6	7



TYPICAL BEAM TO TUBE OR PIPE COLUMN CONNECTION
 TUBE COLUMN SHOWN, PIPE COLUMN SIMILAR.
 USE STD. SHEAR CONNECTION.

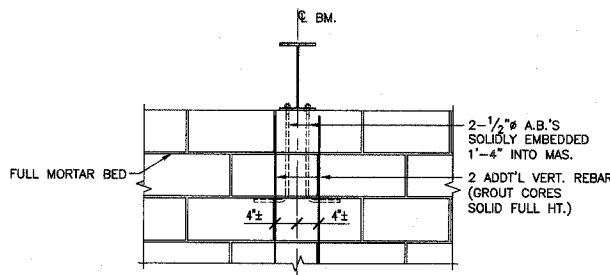
- NOTES:
1. MUST COMPLY WITH TABLE "X", 9TH EDITION, NO EXCEPTIONS.
 2. BOLTS TO BE A325 (TYPE N) 3/4" MIN.
 3. WELDS TO BE A.W.S. E70 ELECTRODE.
 4. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
 5. CONNECTIONS SHALL BE SIZED PER A.I.S.C. "UNIFORM LOAD CONSTANT" (9th Ed.) TABLE FOR END REACTIONS OR REACTIONS SHOWN ON PLAN, WHICHEVER IS HIGHER.
 6. SEE SCHEDULE "A" FOR MIN. NUMBER OF BOLTS IN A ROW FOR EACH BEAM SIZE.

SCHEDULE A							
BEAM DEPTH	6"	8",10"	12",14"	16",18"	21",24"	27",30"	33",36"
MINIMUM NO. OF BOLTS	2	2	3	4	5	6	7

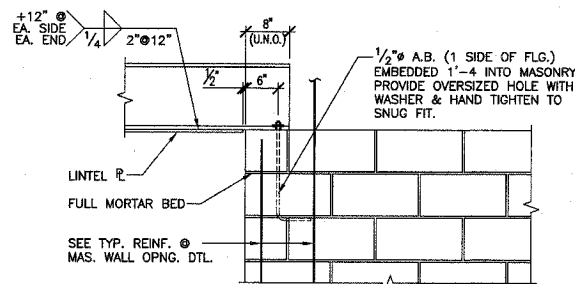


TYPICAL ANGLE FRAME AROUND MECHANICAL OPENINGS IN ROOF

- NOTE: 1. COPE VERTICAL LEG OF ANGLE AND FIELD WELD TO TOP OF JOIST OR BEAM; OR FIELD WELD INTO SIDE OF JOIST TOP CHORD OR BEAM WEB.
 2. COORDINATE LOCATION, SIZE AND OPNGS. OF MECH. UNIT WITH MECH. DWGS.



TYP. BEAM BEARING PERPENDICULAR TO MASONRY WALL WITHOUT BEARING PLATE



TYP. BEAM BEARING PARALLEL TO MASONRY WALL WITHOUT BEARING PLATE
 (SEE TYP. REINFORCING AT MASONRY WALL OPENING FOR BALANCE OF INFO.)

GENERAL STEEL NOTES

1. ALL STRUCTURAL STEEL AND DETAILS SHALL COMPLY WITH THE LATEST AISC "SPECIFICATION FOR DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS". ALL STRUCTURAL STEEL SHALL COMPLY WITH THE FOLLOWING UNLESS NOTED OTHERWISE IN THE SPECIFICATIONS:
 A. CHANNEL SHAPES, PLATES, ANGLES & BARS - ASTM A36.
 B. WIDE FLANGE SHAPES - ASTM A992, GRADE 50.
 C. STEEL TUBE (RECTANGULAR OR SQUARE) - ASTM A500, GRADE B.
 D. STEEL PIPE (ROUND) - ASTM A53, TYPE E OR S.
2. THE FRAME OF STEEL SKELETON BUILDINGS SHALL BE ERECTED IN ACCORDANCE WITH THE AISC "CODE OF STANDARD PRACTICE". SUCH BRACING SHALL BE LEFT IN PLACE AS LONG AS MAY BE REQUIRED FOR SAFETY.
3. SHOP AND FIELD CONNECTIONS ARE TO BE BOLTED WITH HIGH STRENGTH BOLTS OR WELDED, UNLESS NOTED OTHERWISE. ALL END CONNECTIONS SHALL BE DESIGNED ON BASIS OF AISC LOAD SPAN TABLES WITH SPECIAL CONSIDERATION GIVEN TO CONCENTRATED LOADS NEAR ENDS OF BEAMS. MINIMUM DESIGN LOAD TO BE 10,000 LBS. BOLTS TO BE 3/4" DIAMETER ASTM A325 (TYPE N) WITH MINIMUM 2 BOLTS PER CONNECTION. SLIP CRITICAL BOLTS ARE TO BE USED FOR CROSSBRACE CONNECTIONS TO BEAMS & COLUMNS & FOR BEAM END CONNECTIONS THAT TRANSFER BRACE LOADS TO COLUMNS.
4. SHEAR TAB CONNECTIONS (EXCEPT THOSE EXACTLY THE SAME AS IN THE AISC NINTH EDITION TABLE X) WILL NOT BE PERMITTED. THERE WILL BE NO EXCEPTIONS.
5. SHOP AND FIELD WELDING SHALL CONFORM TO THE A.W.S. D1.1 "STRUCTURAL WELDING CODE".
6. ALL COLUMN BASE PLATES SHALL BE SET ON SHIMS TRUE AND LEVEL. BASE PLATES SHALL BE SOLIDLY GROUDED WITH EMBECO GROUT UNDER THE ENTIRE BASE PLATE AREA.
7. ANCHOR BOLTS SHALL BE 3/4" HEADED BOLTS (A307) OR ASTM F1554 A36 THREADED RODS W/ WELDED NUTS. EXTEND 1'-0" INTO CONCRETE WHERE POSSIBLE, & BE HELD 2 1/2" MINIMUM FROM OUTSIDE FACE OF CONCRETE. ALL ANCHOR BOLTS SHALL BE HELD 1 1/2" MINIMUM FROM EDGE OF BASE PLATE WHERE POSSIBLE. PROVIDE A MINIMUM OF 4-3/4" DIAMETER ANCHOR BOLTS AT EACH COLUMN, UNLESS NOTED OTHERWISE.
8. WHERE EPOXY ANCHORS ARE INDICATED, INSTALL PER MANUFACTURERS RECOMMENDATIONS WITH ITW RAMSET/REDHEAD EPOXY SYSTEM, SIMPSON EPOXY-TIE ADHESIVE OR U S ANCHOR HS 200 EPOXY SYSTEM.
9. PROVIDE 8" SOLID MASONRY UNDER MASONRY BEARING ENDS OF ALL STRUCTURAL STEEL. SOLID BEARING IS TO EXTEND A MINIMUM OF 8" PAST EACH SIDE OF FLANGE OR BEARING PLATE. BEAMS AND LINTELS TO BEAR A MINIMUM OF 8" ON MASONRY.
10. PROVIDE 2-1/2" DIAMETER ANCHOR BOLTS EMBEDDED 1'-4" INTO MASONRY AND GROUDED SOLID AT BEARING ENDS OF ALL BEAMS SPANNING PERPENDICULAR TO SUPPORTING WALL.
11. MASONRY WALLS, UNLESS NOTED OTHERWISE, SHALL HAVE A WBX10 + 1/4" PLATE LINTEL OVER ALL OPENINGS GREATER THAN 1'-4" IN LENGTH.
12. SUPPORT OF STAIR STRINGERS ON MASONRY WALLS IS TO BE IN DIRECT BEARING ON SOLID OR GROUDED MASONRY (U.N.O.).

GENERAL STEEL JOIST NOTES

1. ALL STEEL JOISTS, BRIDGING AND DETAILS SHALL COMPLY WITH THE LATEST STEEL JOIST INSTITUTE "STANDARD SPECIFICATIONS AND LOAD TABLES" FOR DESIGN, FABRICATION, AND ERECTION.
2. LOCATE ONE ADDITIONAL ROW OF BOTTOM CHORD BRIDGING ADJACENT TO FIRST BOTTOM CHORD PANEL POINTS AT ALL ROOF JOISTS.
3. JOISTS SHALL BE ERECTED WITHIN A MAXIMUM HORIZONTAL ALIGNMENT TOLERANCE OF 1" IN 25'-0".
4. ALL STEEL ROOF JOISTS SHALL BE DESIGNED FOR A MINIMUM NET UPLIFT OF 10 PSF.
5. PROVIDE SPECIAL DEPTH ENDS, EXTENDED ENDS, OUTRIGGERS, HEADERS, CEILING EXTENSIONS, ANCHORS, ETC. AS REQUIRED BY DRAWING AND SPECIFICATIONS.
6. PROVIDE 8" OF SOLID MASONRY UNDER MASONRY BEARING ENDS OF STEEL JOISTS. SOLID MASONRY TO RUN CONTINUOUSLY AT BEARING ELEVATION.
7. EXTRA WEBS MUST BE FIELD APPLIED AT ALL CONCENTRATED LOADS NOT OCCURRING AT JOIST PANEL POINTS.

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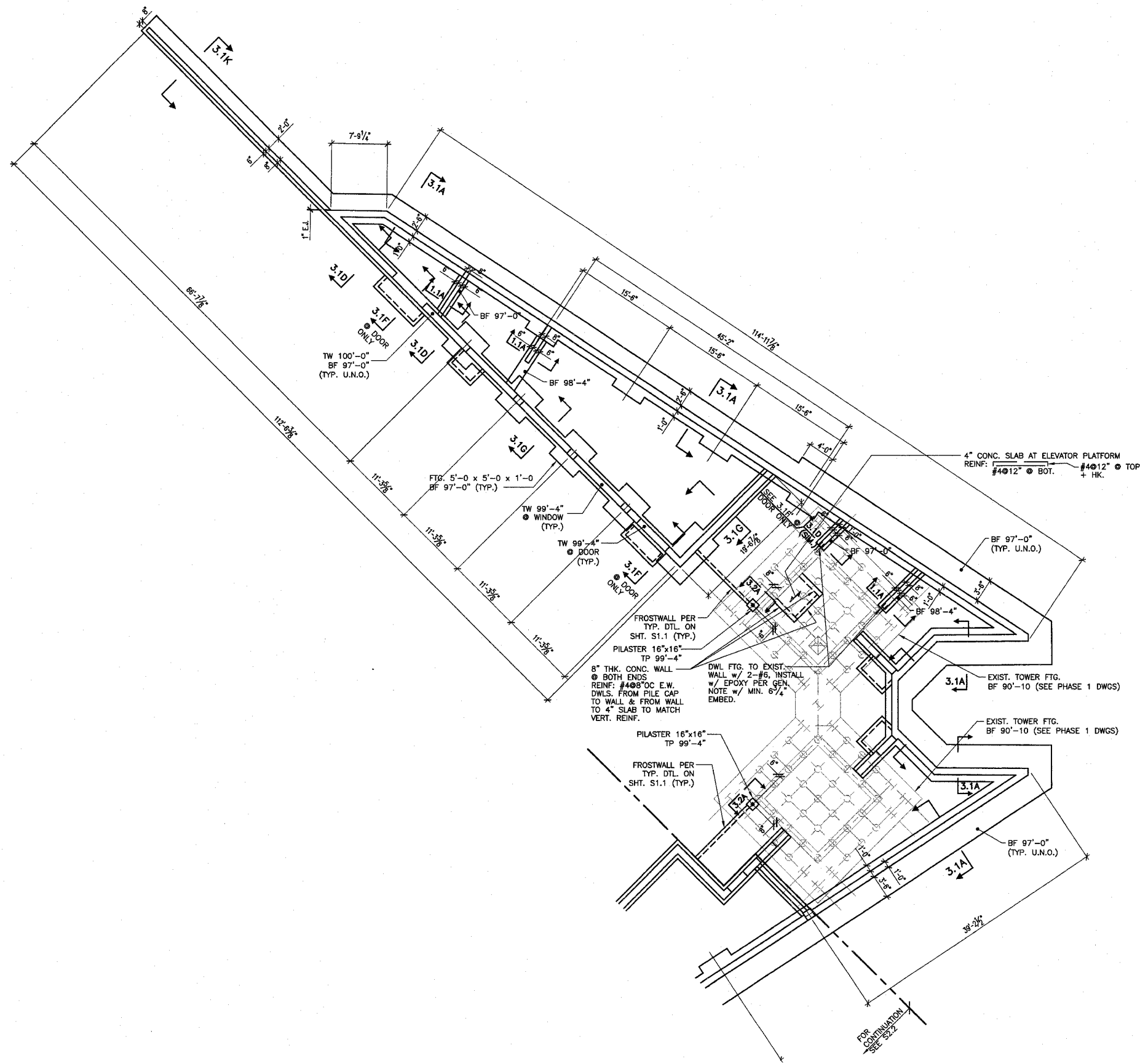
SHEET TITLE:
TYPICAL DETAILS & GENERAL NOTES

REV. NO.	DATE	REMARKS

KENNEDY PROJECT NO
KAI# 10-02048

ISSUE DATE
11-APRIL-08

SHEET NO
S1.3



PARTIAL FOUNDATION PLAN 1/8"=1'-0"

- NOTES: 1. FIN. FLR. EL. 100'-0" (U.N.O.)
 2. FLR. CONSTR: 4" CONC. SLAB ON GRANULAR FILL REINF. SLAB W/ 6X6-W1.4XW1.4 W.W.F. OR STRUX 90/40 FIBER REINF. BY GRACE CONSTR. PRODUCTS @ THE DOSAGE RATE OF 3.5 lbs./cubic yd. PER W.R. GRACE SPECS. (OR EQUAL) - U.N.O.

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SHEET TITLE
PARTIAL FOUNDATION PLAN

REV. NO.	DATE	REMARKS

KENNEDY PROJECT NO
KAI# 10-02048

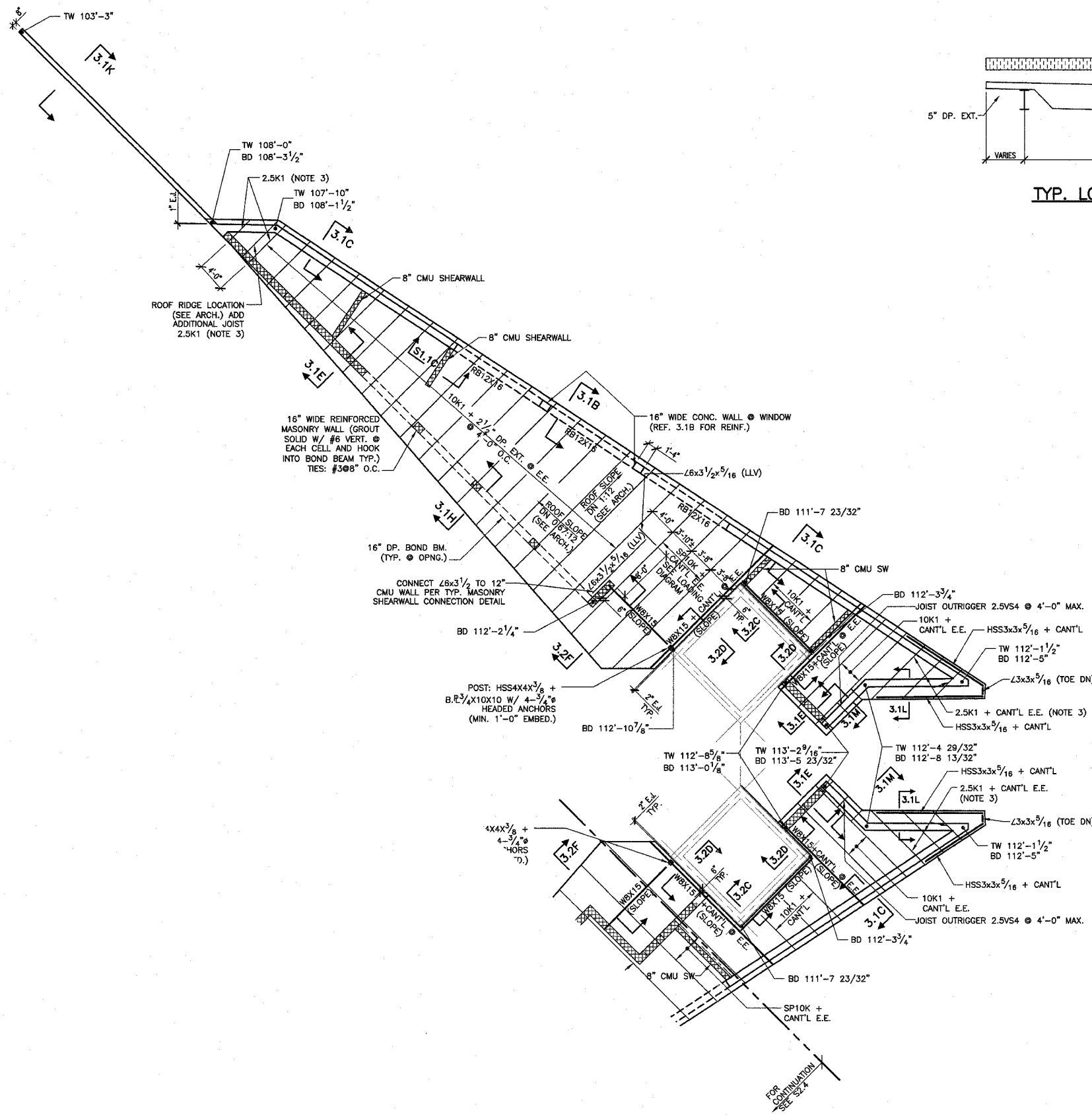
ISSUE DATE
11-APRIL-08

SHEET NO
S2.1

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SSE PROJECT NO: 02111



PARTIAL ROOF PLAN 1/8"=1'-0"

- NOTES:
1. ROOF CONSTR: RIGID INSULATION ON 1 1/2" DEEP 22 GA. WIDE RIB METAL ROOF DECK ON STEEL JOISTS AT 4'-0" O.C. MAX. BD SLOPES (SEE PLAN)
 2. ALL EMBEDS ARE GALVANIZED WHERE EXPOSED.
 3. JOIST MFR. TO PROVIDE SHIM R OR JOIST SEAT TO MATCH ROOF SLOPE. (TYP. UNO)

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SHEET TITLE
PARTIAL ROOF PLAN

DATE	REVISIONS

REV. NO. KENNEDY PROJECT NO
 KAI# 10-02048

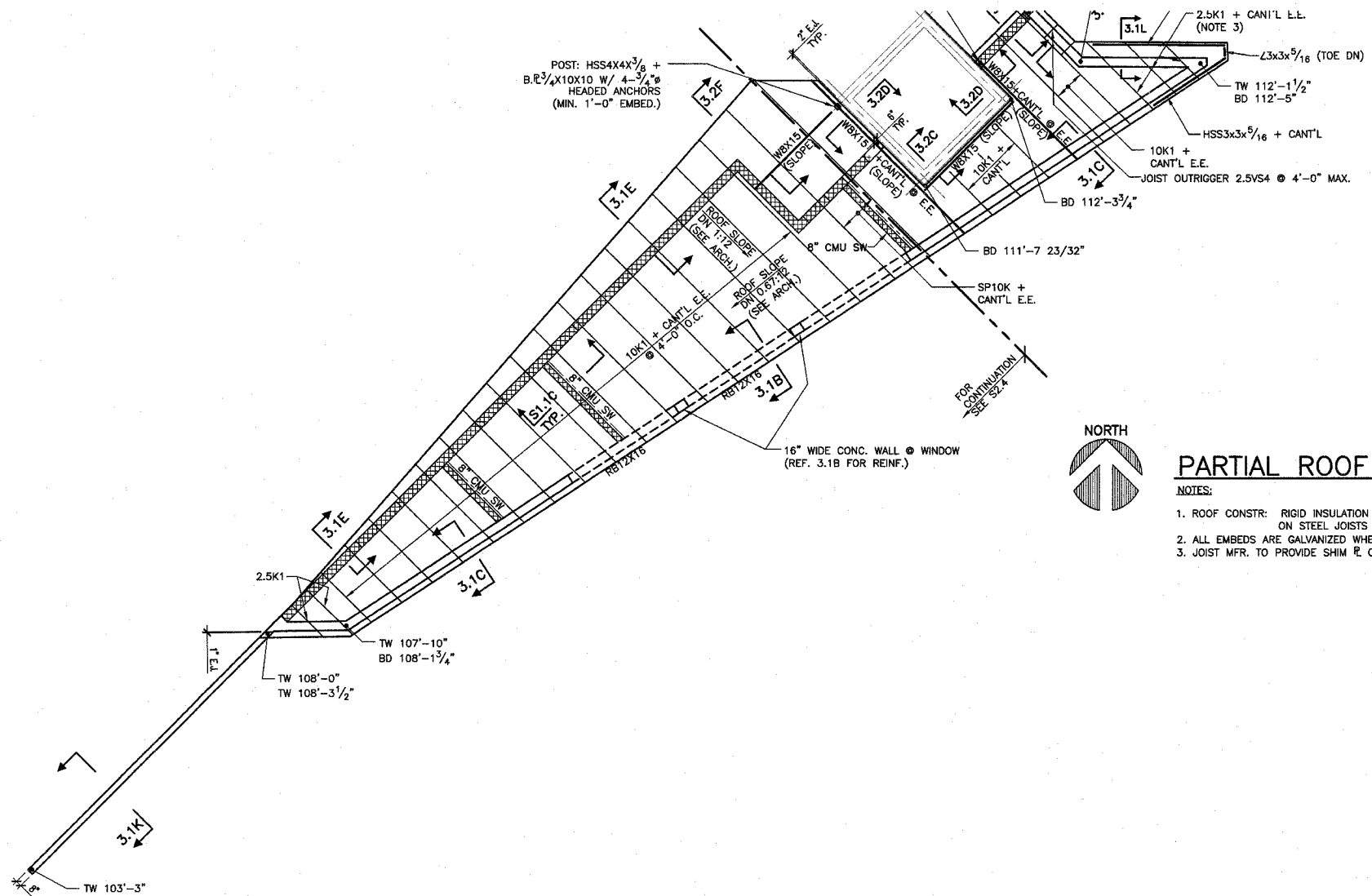
ISSUE DATE
11-APRIL-08

SHEET NO
S2.3

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SSE PROJECT NO: 02111



PARTIAL ROOF PLAN 1/8"=1'-0"

- NOTES:
1. ROOF CONSTR: RIGID INSULATION ON 1 1/2" DEEP 22 GA. WIDE RIB METAL ROOF DECK ON STEEL JOISTS AT 4'-0" O.C. MAX. BD SLOPES (SEE PLAN)
 2. ALL EMBEDS ARE GALVANIZED WHERE EXPOSED.
 3. JOIST MFR. TO PROVIDE SHIM R. OR JOIST SEAT TO MATCH ROOF SLOPE. (TYP. UNO)

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SHEET TITLE:
PARTIAL ROOF PLAN

REV. NO.	REMARKS	DATE

KENNEDY PROJECT NO
KAI 10-02048

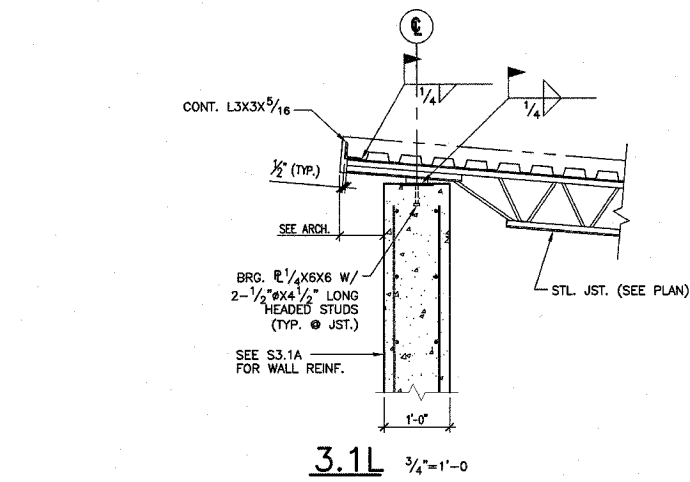
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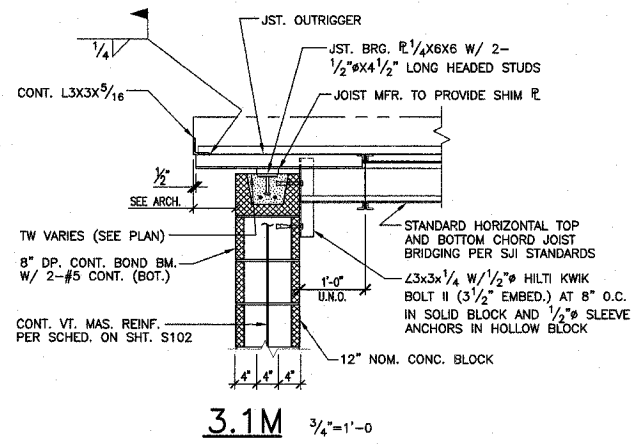
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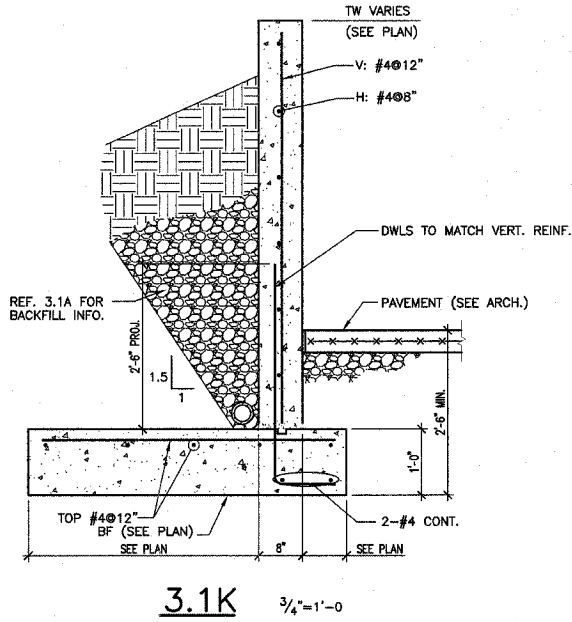
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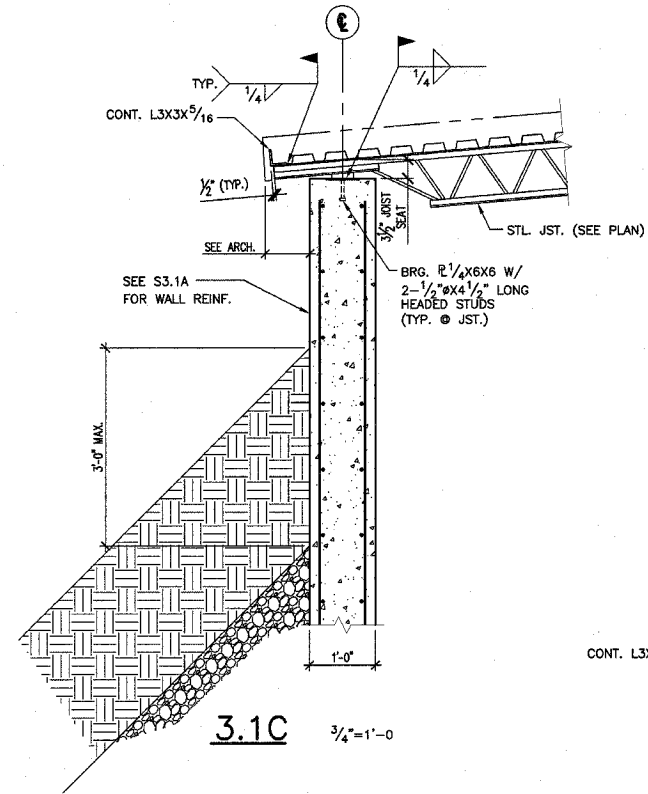
3.1L 3/4"=1'-0"



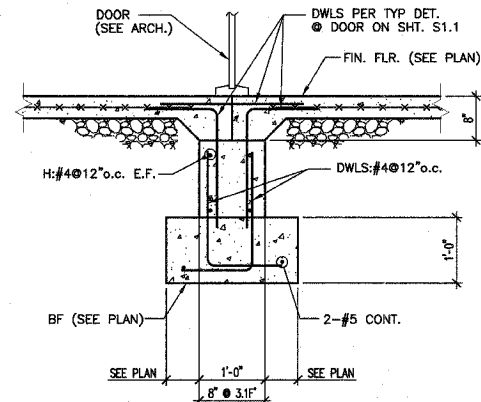
3.1M 3/4"=1'-0"



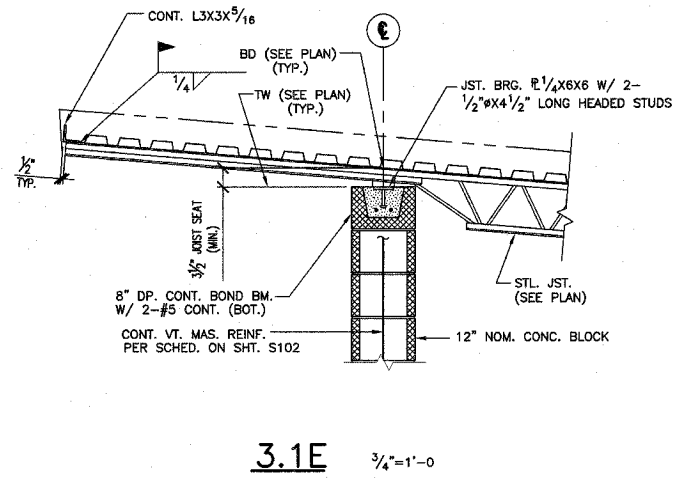
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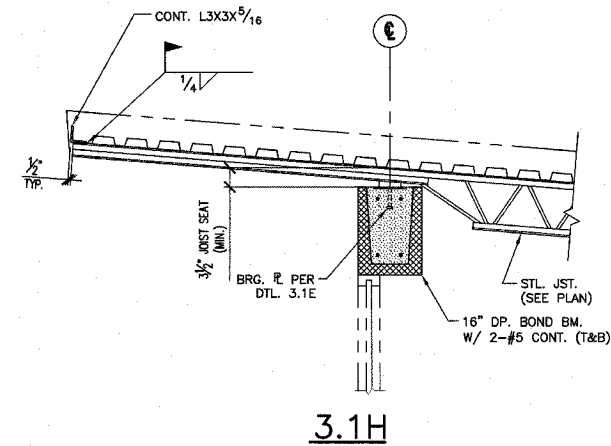
3.1C 3/4"=1'-0"



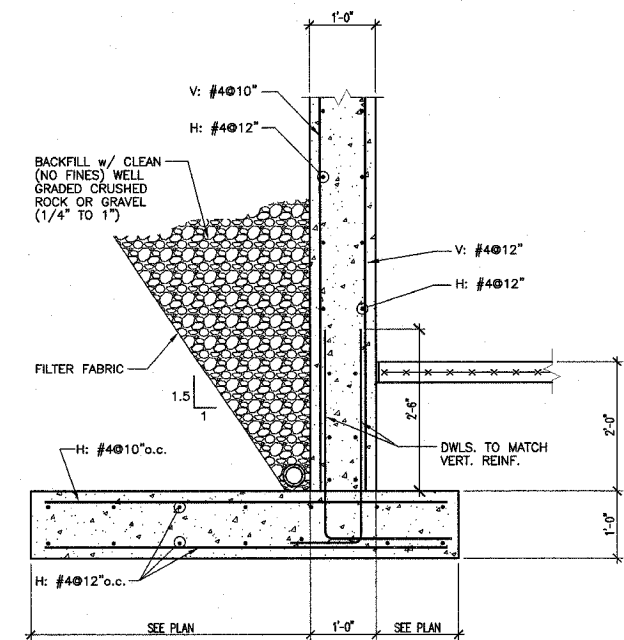
3.1F 3/4"=1'-0"
3.1F' 3/4"=1'-0"



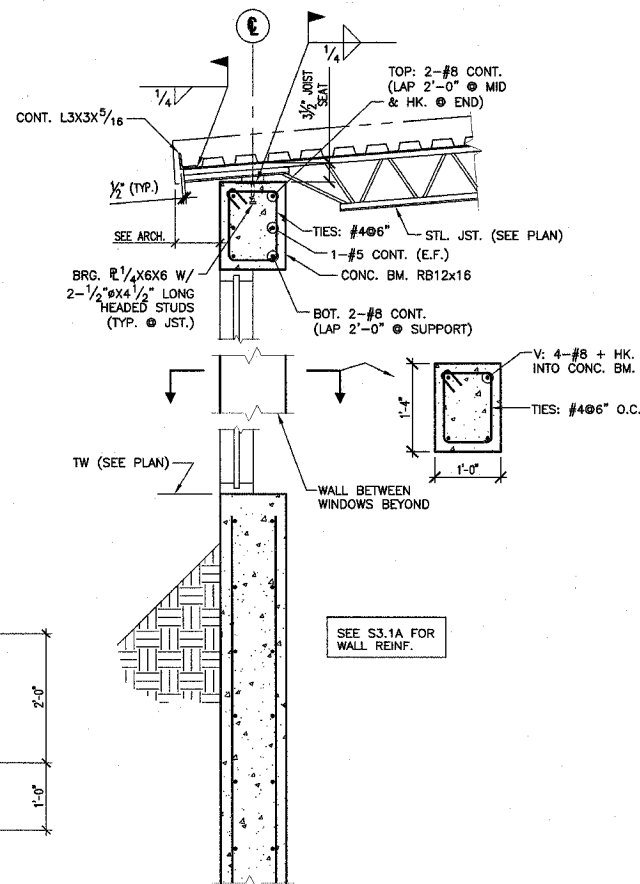
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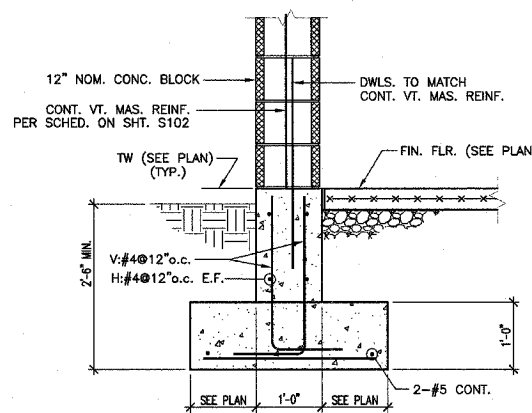
3.1H



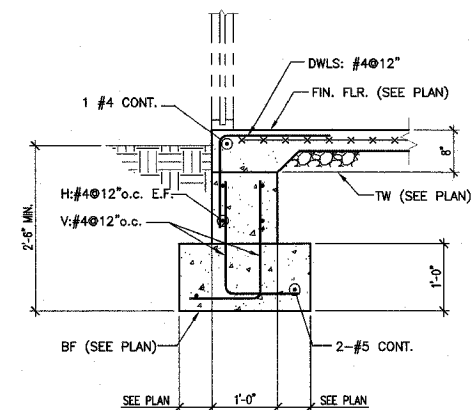
3.1A 3/4"=1'-0"



3.1B 3/4"=1'-0"



3.1D 3/4"=1'-0"



3.1G 3/4"=1'-0"

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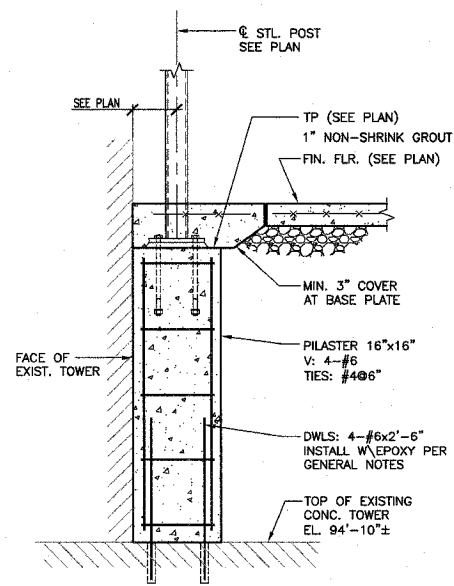
SECTIONS & DETAILS

REV. NO.	DATE	REMARKS

KENNEDY PROJECT NO
KAI- 10-02048

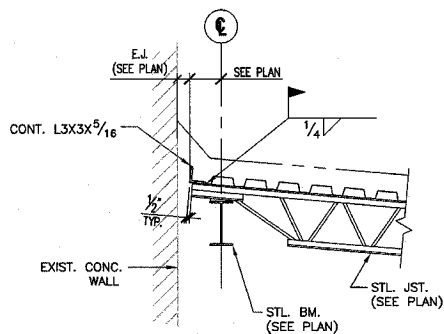
ISSUE DATE
11-APRIL-08

SHEET NO
S3.1



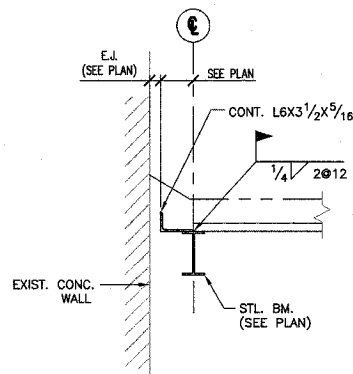
3.2A 3/4"=1'-0"

3.2B (NOT USED)

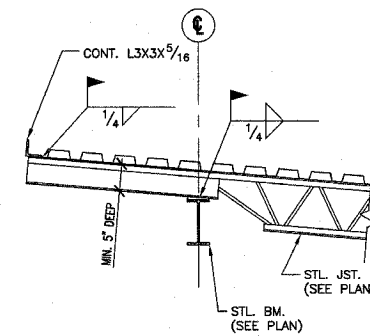


3.2C 3/4"=1'-0"

3.2E (NOT USED)



3.2D 3/4"=1'-0"



3.2F 3/4"=1'-0"

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SHEET NO
S3.2

SSE PROJECT NO: 02111



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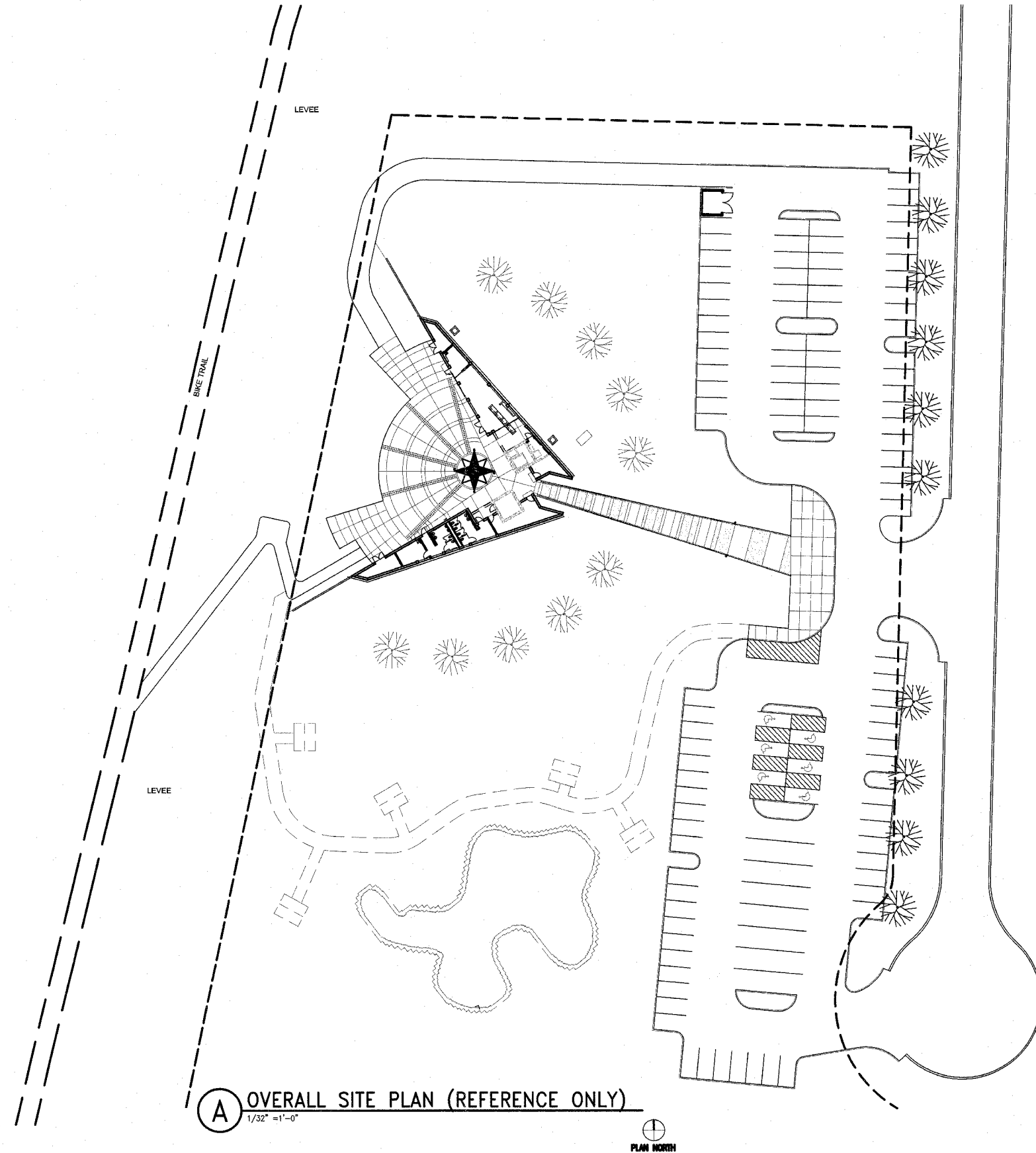
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SECTION TITLE
SECTIONS & DETAILS

REV. NO.	DATE	REMARKS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	03-00026-00-PK	MADISON	53	22
	06-00026-01-MS			

FEDERAL AID PROJECT



A OVERALL SITE PLAN (REFERENCE ONLY)
 1/32" = 1'-0"



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SHEET TITLE:
OVERALL SITE PLAN
 FOR REFERENCE ONLY

REV. NO.	REMARKS	DATE

KENNEDY PROJECT NO
KAI# 10-02048

ISSUE DATE
APRIL 11, 2008

SHEET NO
A1-02

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SHEET TITLE
PHASE 2A SIT PLAN

REV. NO.	DATE	REMARKS

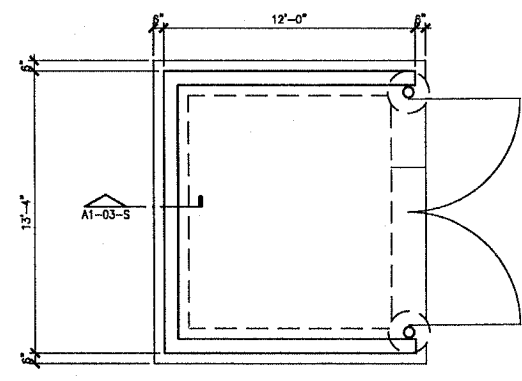
KENNEDY PROJECT NO
 KAI# 10-02048

ISSUE DATE
 APRIL 11, 2008

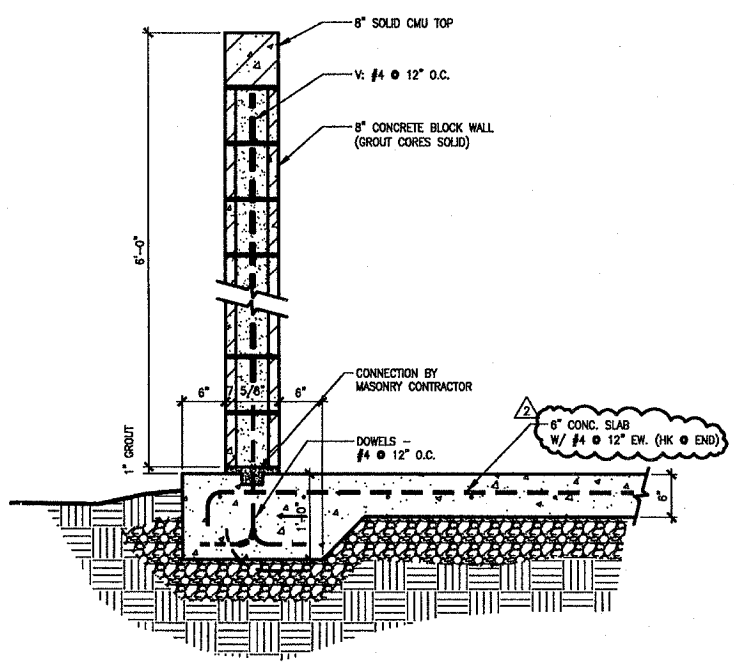
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A1-03

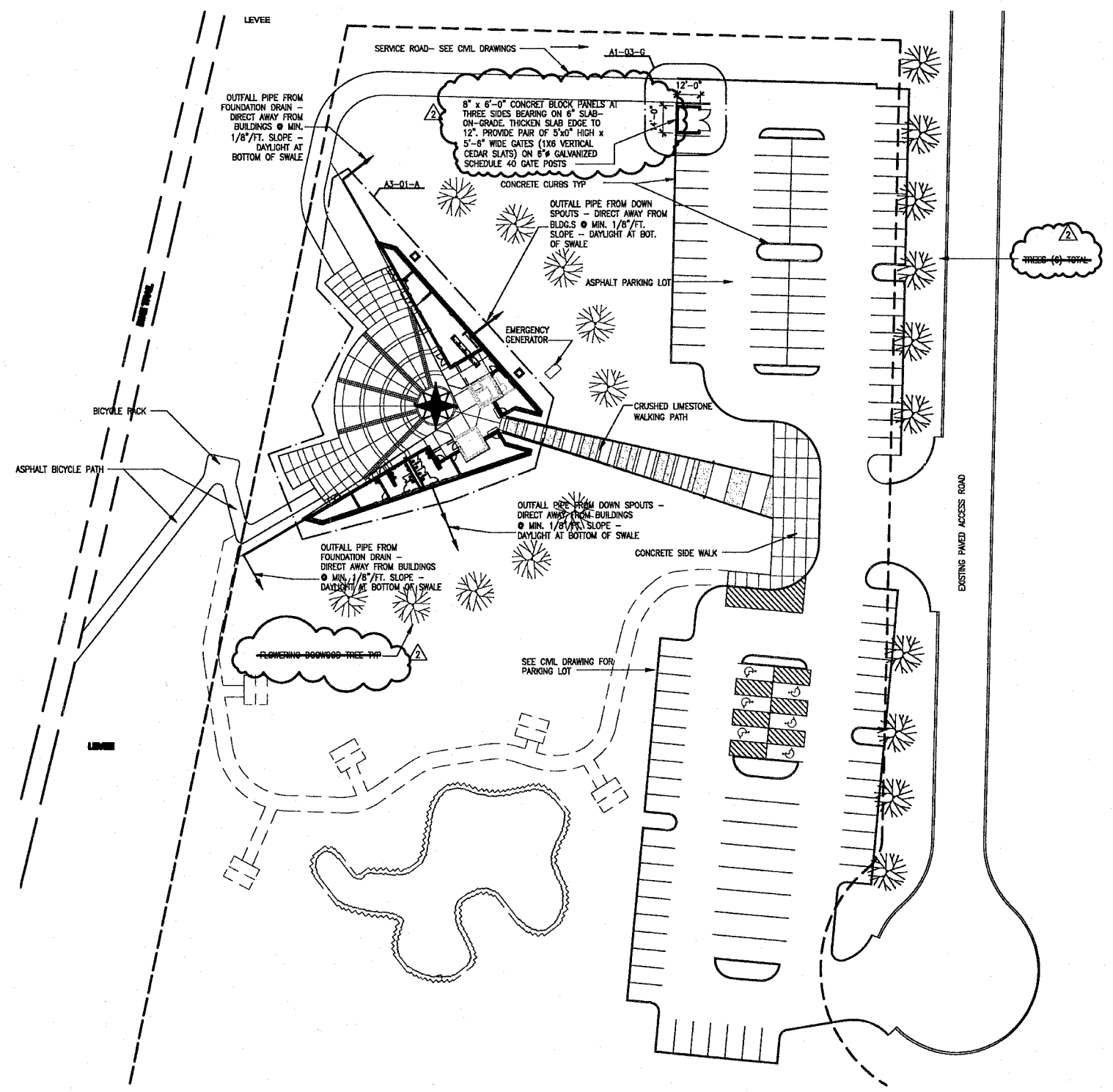
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G DUMPSTER ENCLOSURE
 1/4" = 1'-0"



S DUMPSTER ENCLOSURE
 1" = 1'-0"



A PHASE 2 SITE PLAN
 1/32" = 1'-0"
 PLAN NORTH
 REVISED 3-3-08

Drawing Stamp Information

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	03-00026-00-PK 06-00026-01-MS	MADISON	53	24

FEDERAL AID PROJECT

GENERAL NOTES:

- ALL DOOR DIMENSIONS ARE 3'-0" x 7'-0" UNLESS NOTED OTHERWISE.
- SEE FINISH SCHEDULE FOR DOOR AND FRAME FINISHES.

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SHEET TITLE:
**MOUNTING HEIGHTS/
PARTITION TYPES
DOOR INFORMATION**

DATE	REMARKS	REV. NO.

KENNEDY PROJECT NO
KAI# 10-02048

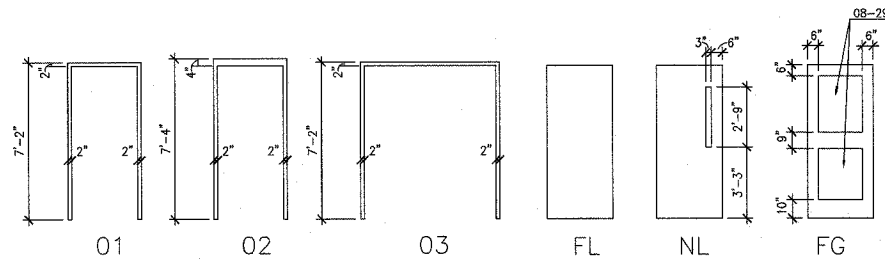
ISSUE DATE
APRIL 11, 2008

SHEET NO

A2-01

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DOOR TYPE	DOOR ELEV.	DOOR MATERIAL	FRAME ELEV.	DOOR RATING	REMARKS
A	FL	HM	01		
B	NL	HM/GL	01		PROVIDE PATTERNED GLASS IN LITE
C	FG	AL/GL	01		INSTALL TEMPERED INSULATED GLASS
D	NL	HM/GL	01	1 1/2 HOUR	INSTALL FIRE-RATED GLASS @ LITE
E	FL	HM	02		
F	FG	AL/GL	03		INSTALL TEMPERED INSULATED GLASS
G	FL	HM	03		



DOOR ELEV. LEGEND

FL FLUSH
FG FULL GLASS
NL NARROW LITE

DOOR MATERIAL LEGEND

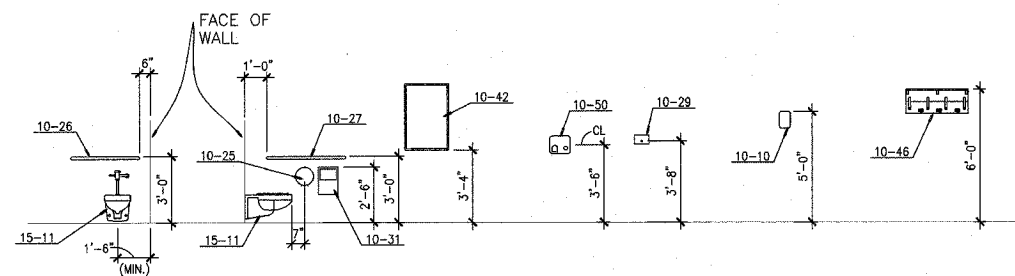
HM HOLLOW METAL
GL GLASS
AL ALUMINUM

FRAME ELEVATION

1/4"=1'-0"

DOOR ELEVATIONS

1/4"=1'-0"



TYP. MOUNTING HEIGHTS

1/4"=1'-0"

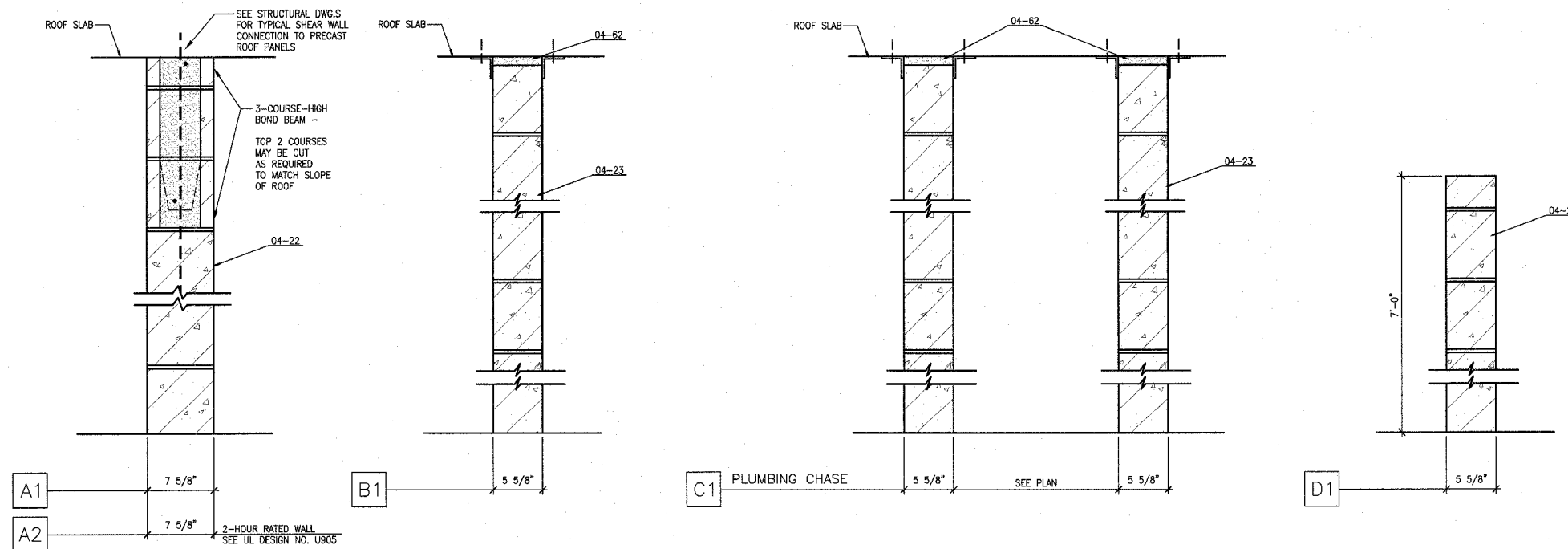
FINISH SCHEDULE

ROOM NO.	ROOM NAME	FLOOR	WALLS	CEILING FINISH	CEILING HEIGHT	REMARKS
101	MECHANICAL	SC	---	---	VARIES	PAINT DOORS & FRAMES WITH HPC
102	VENDING	STC	HPC	AP/HPC	VARIES	
103	GIFT SHOP	STC	HPC	AP/HPC	VARIES	
104	CONTROL DESK	STC	HPC	AP/HPC	VARIES	
105	LOBBY	*	---	HPC	VARIES	*COLORED CONC. - PART OF PLAZA PAVING
106	ELEVATOR MECHANICAL	SC	---	---	VARIES	PAINT DOORS & FRAMES WITH HPC
107	ELECTRICAL	SC	---	---	VARIES	PAINT DOORS & FRAMES WITH HPC
108	PUMPS	SC	---	---	VARIES	PAINT DOORS & FRAMES WITH HPC
109						NOT USED
110	WOMEN	SC	HPC	HPC	VARIES	PAINT DOORS & FRAMES WITH HPC
111	MEN	SC	HPC	HPC	VARIES	PAINT DOORS & FRAMES WITH HPC
112	ELECTRICAL / JANITOR	SC	---	---	VARIES	PAINT DOORS & FRAMES WITH HPC
113	STORAGE	SC	---	---	VARIES	PAINT DOORS & FRAMES WITH HPC

SC SEALED CONCRETE
STC STAINED CONCRETE
HPC HIGH PERFORMANCE COATING
AP ACOUSTICAL PANEL

KEYED NOTES:

- 04-22 8" CONCRETE MASONRY UNIT
- 04-23 6" CONCRETE MASONRY UNIT
- 04-62 COMPRESSIBLE FILLER
- 10-10 TACTILE SIGN PLATE
- 10-25 ACCESSIBLE TOILET TISSUE DISPENSER
- 10-26 36" GRAB BAR
- 10-27 42" GRAB BAR
- 10-29 ACCESSIBLE SOAP DISPENSER
- 10-31 ACCESSIBLE SANITARY NAPKIN DISPOSAL
- 10-42 MIRROR
- 10-46 UTILITY SHELF WITH HOOKS
- 10-50 ELECTRIC HAND DRYER
- 15-11 ACCESSIBLE WATER CLOSET

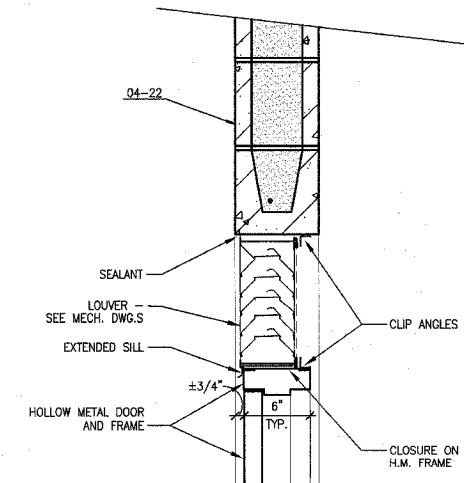


PARTITION TYPES

1-1/2"=1'-0"

A DOOR FRAME / LOUVER DETAIL

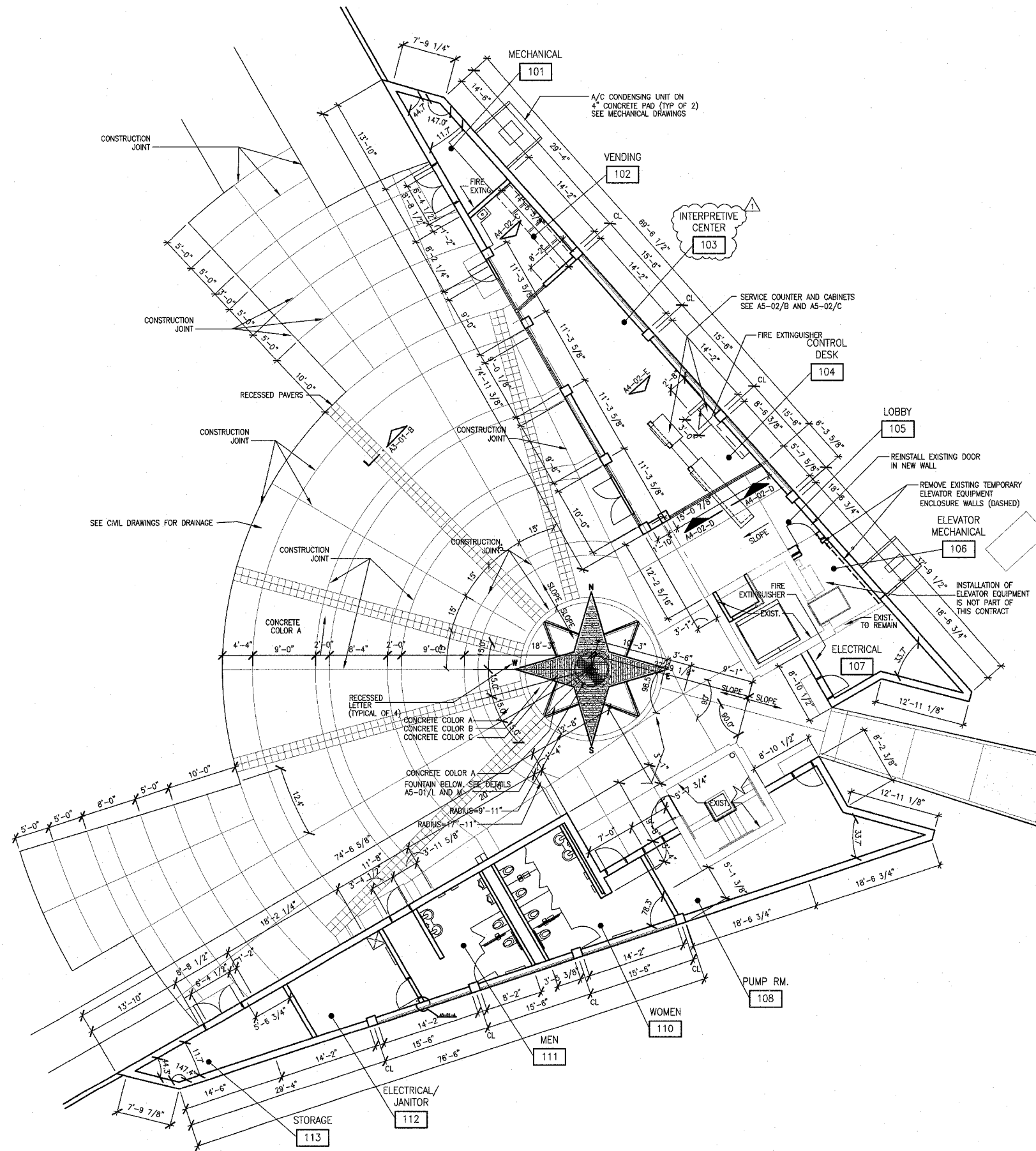
1-1/2"=1'-0"



F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	03-00026-00-PK 06-00026-01-MS	MADISON	53	25

FEDERAL AID PROJECT

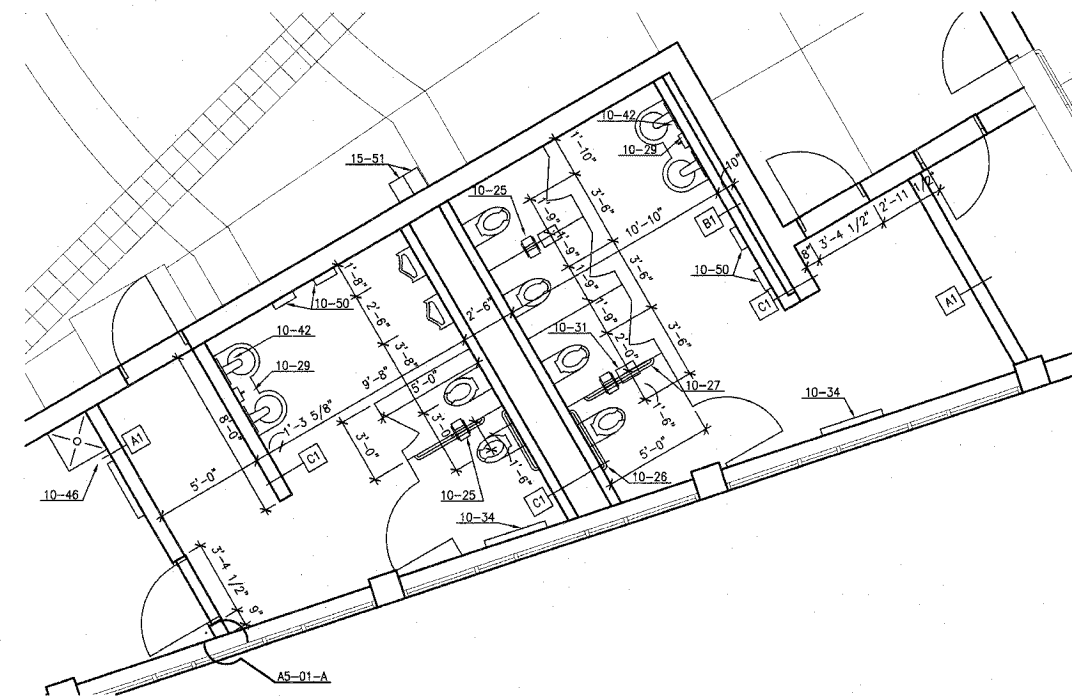
Note: Remove temporary elevator machine enclosure as required.
(Temporary enclosure shall remain as long as possible to reduce the chances of damaging elevator equipment.)



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

KEYED NOTES:

- 04-63 8"x8" WALL VENTS @ 8" ABOVE FLOOR & 8" (MIN.) BELOW ROOF PANELS.
- 10-25 ACCESSIBLE TOILET TISSUE DISPENSER
- 10-26 36" GRAB BAR
- 10-27 42" GRAB BAR
- 10-29 ACCESSIBLE SOAP DISPENSER
- 10-31 ACCESSIBLE SANITARY NAPKIN DISPOSAL
- 10-34 DIAPER CHANGING TABLE
- 10-42 MIRROR
- 10-46 UTILITY SHELF WITH HOOKS
- 10-50 ELECTRIC HAND DRYER
- 15-51 DRINKING FOUNTAIN



B ENLARGED RESTROOM PLAN
1/4" = 1'-0"

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LEWIS AND CLARK MEMORIAL TOWER
VILLAGE OF HARTFORD, ILLINOIS
HARTFORD, ILLINOIS 62049

SHEET TITLE:
FLOOR PLAN AND ENLARGED RESTROOM PLAN

REV. NO.	DATE	REMARKS
1	11/9/06	DOT REV.

KENNEDY PROJECT NO
KAI# 10-02048

ISSUE DATE
APRIL 11, 2008

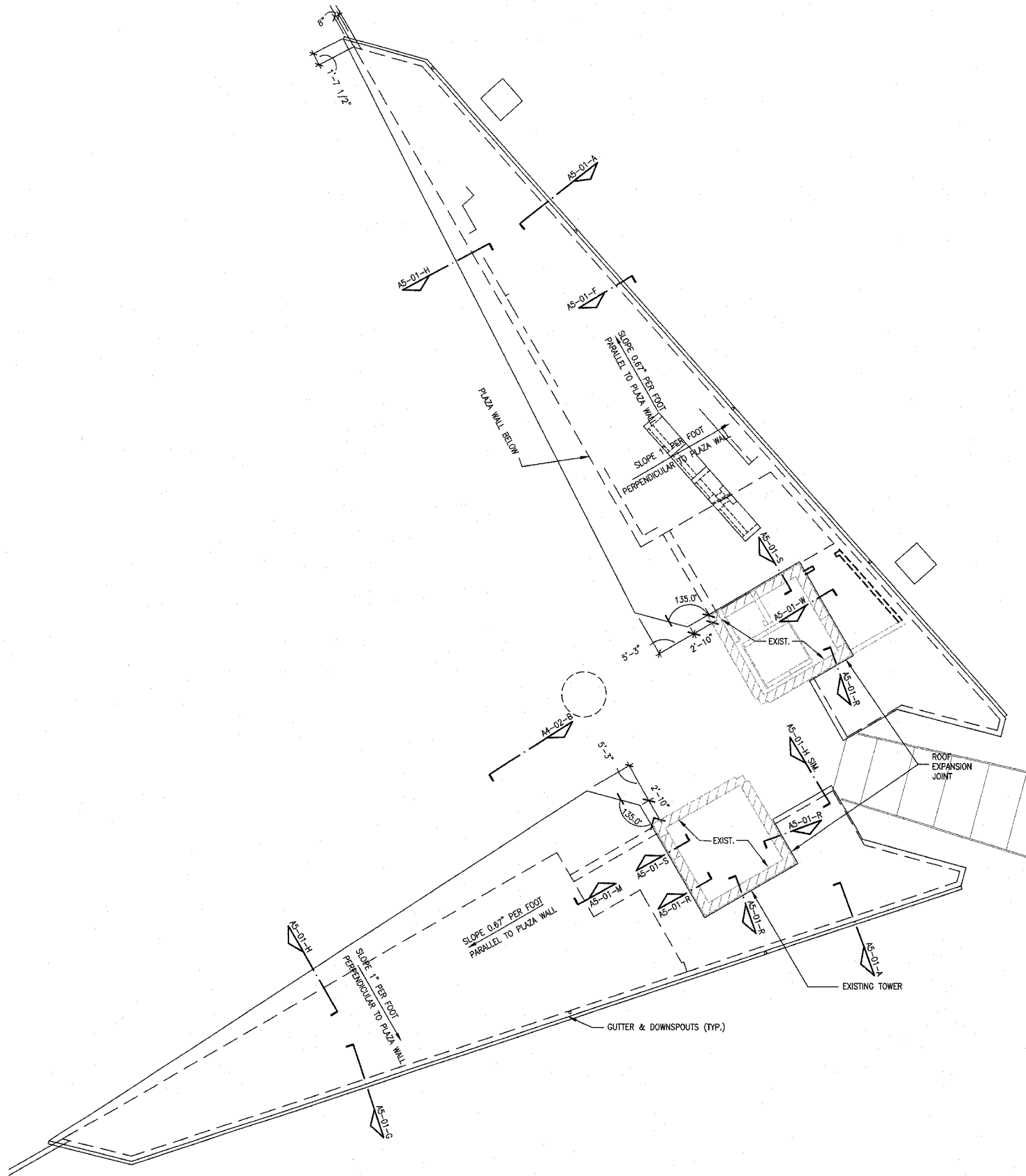
SHEET NO

A3-01

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	03-00026-00-PK 06-00026-01-MS	MADISON	53	26

FEDERAL AID PROJECT

Note: Remove temporary elevator machine enclosure as required.
(Temporary enclosure shall remain as long as possible to reduce the chances of damaging elevator equipment.)



A ROOF PLAN
1/8" = 1'-0"
PLAN NORTH

211 N. Broadway
Suite 1900
St. Louis, MO
63102
(314) 241-8188
FAX (314) 241-0125



LEWIS AND CLARK MEMORIAL TOWER
VILLAGE OF HARTFORD, ILLINOIS
HARTFORD, ILLINOIS 62049

SHEET TITLE:
ROOF PLAN

REV. NO.	REMARKS	DATE
1	DOT REV.	11/8/06

KENNEDY PROJECT NO
KAI# 10-02048

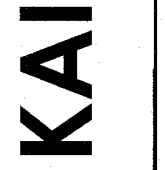
ISSUE DATE
APRIL 11, 2008

SHEET NO
A3-02

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	03-00026-00-PK 06-00026-01-MS	MADISON	53	27

FEDERAL AID PROJECT

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LEWIS AND CLARK MEMORIAL TOWER
VILLAGE OF HARTFORD, ILLINOIS
HARTFORD, ILLINOIS 62049

SHEET TITLE:
REFLECTED CEILING PLAN

REV. NO.	DATE	REMARKS
1	11/9/06	DOT REV.

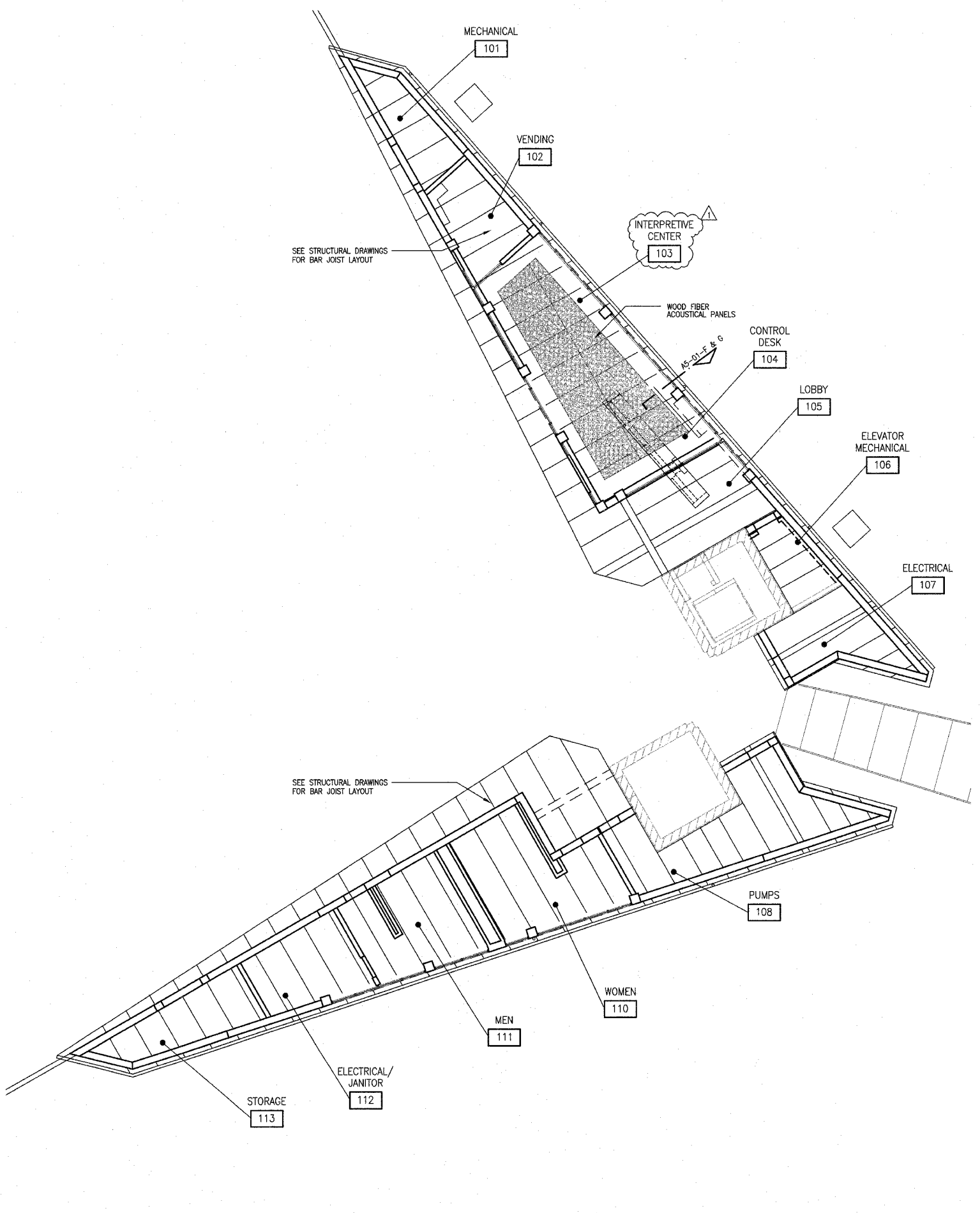
KENNEDY PROJECT NO
KAI# 10-02048

ISSUE DATE
APRIL 11, 2008

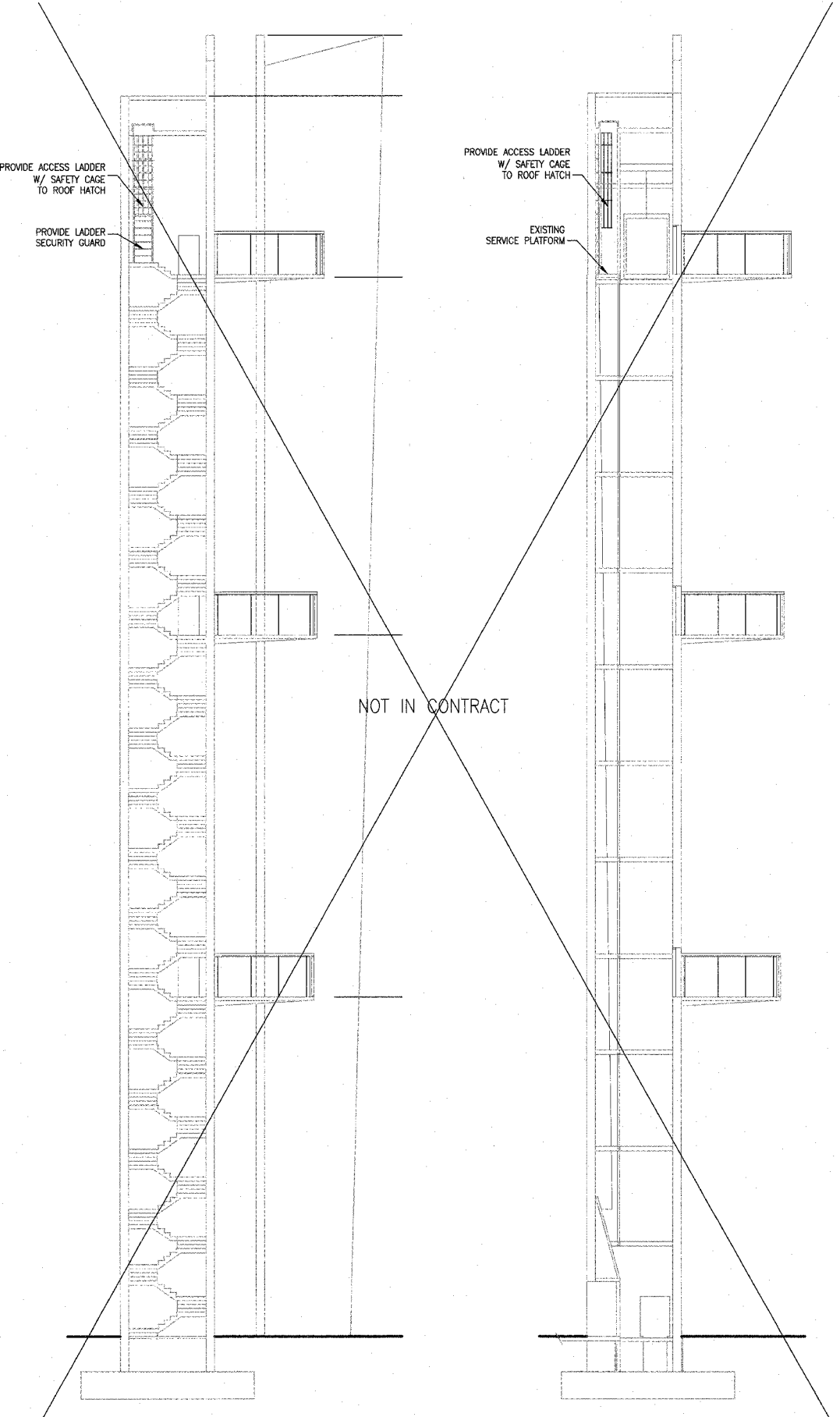
SHEET NO

A3-03

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A REFLECTED CEILING PLAN
1/8" = 1'-0"



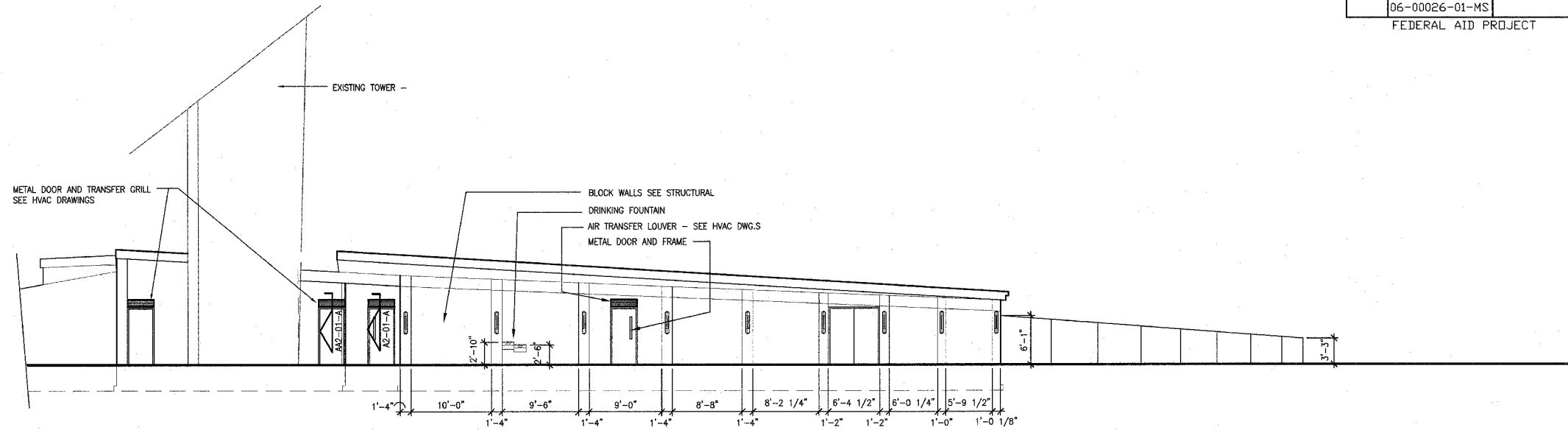
C SECTION THRU SOUTH TOWER
1" = 10'-0"

D SECTION THRU NORTH TOWER
1" = 10'-0"

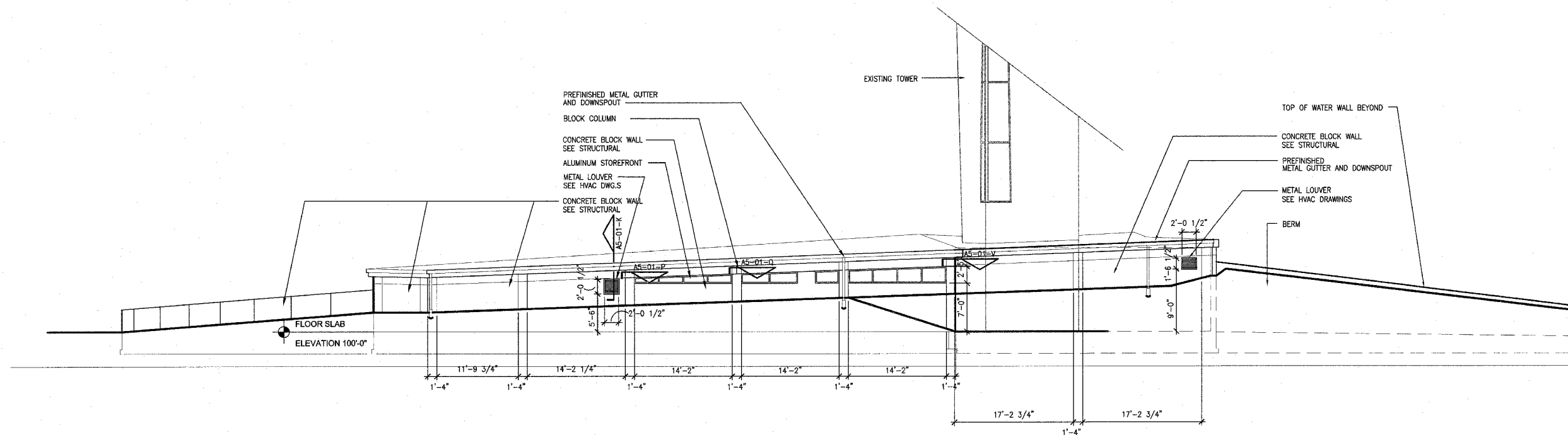
Drawing Stamp Information

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	03-00026-00-PK 06-00026-01-MS	MADISON	53	28

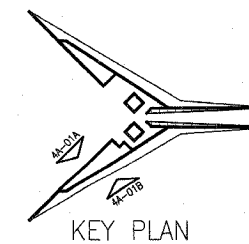
FEDERAL AID PROJECT



A ELEVATION
1/8"=1'-0"



B ELEVATION
1/8"=1'-0"



P:\2002\10-02048\6000\SC\PHASE-2\02B\A4-01.DWG | 12/27/2005 8:40:36 AM | Xref's: BS-ELEV TB24365DL | Images: none

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VILLAGE OF HARTFORD, ILLINOIS
HARTFORD, ILLINOIS 62049

SHEET TITLE:
EXTERIOR ELEVATIONS

REV. NO.	REMARKS	DATE

KENNEDY PROJECT NO
KAI# 10-02048

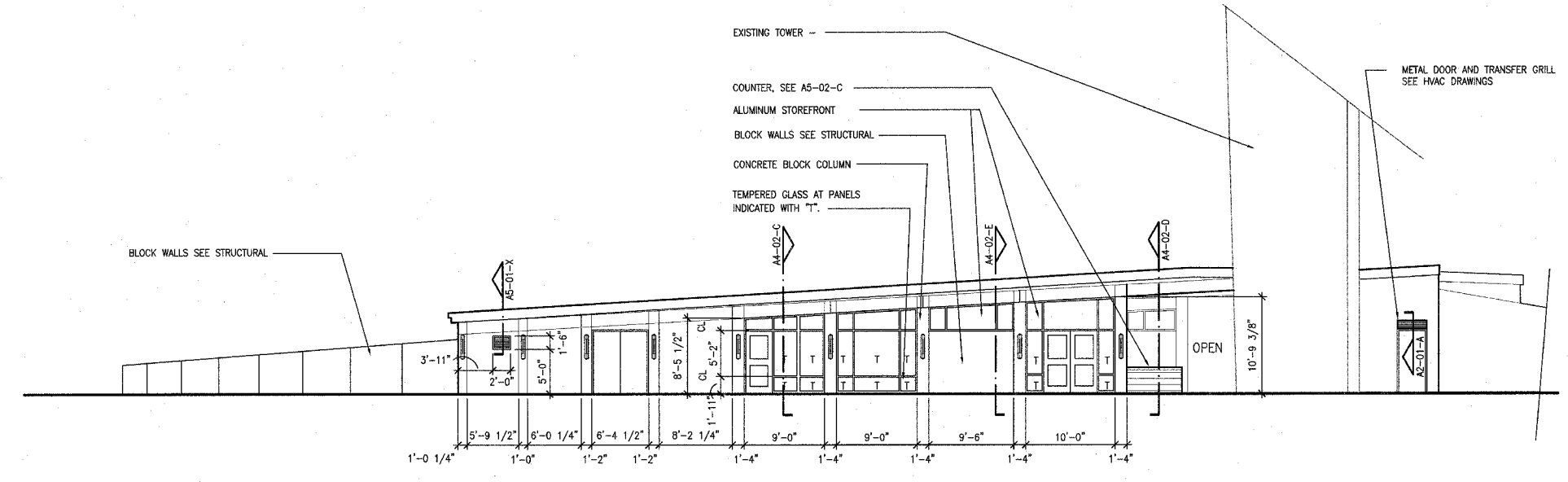
ISSUE DATE
APRIL 11, 2008

SHEET NO

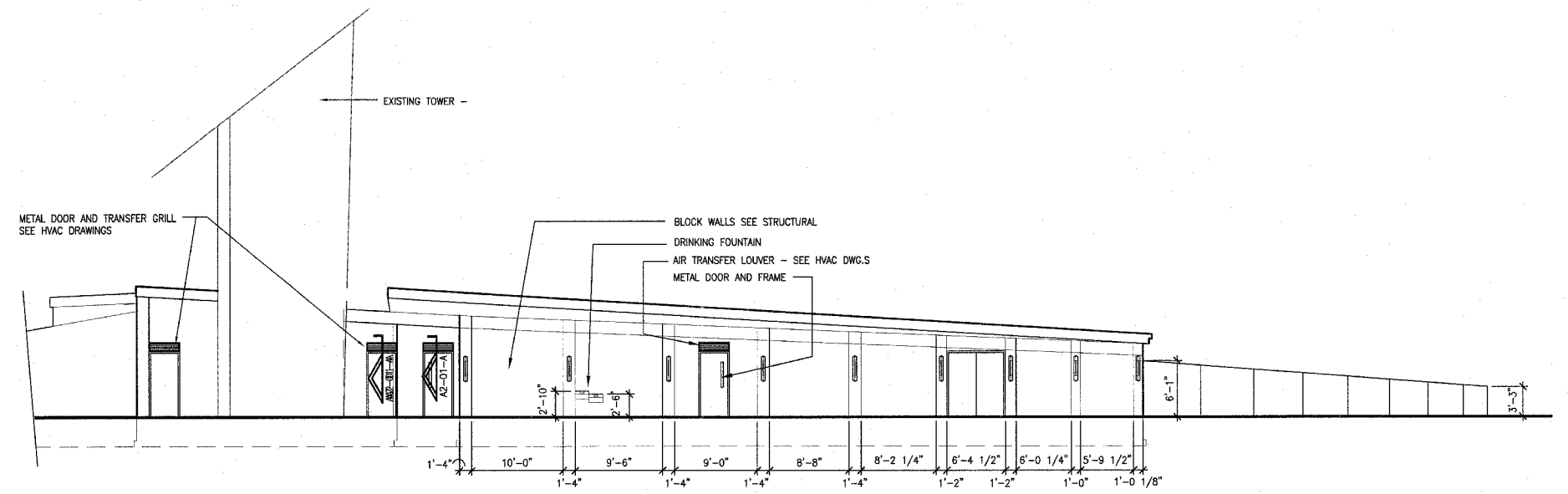
A4-01

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	03-00026-00-PK 06-00026-01-MS	MADISON	53	29

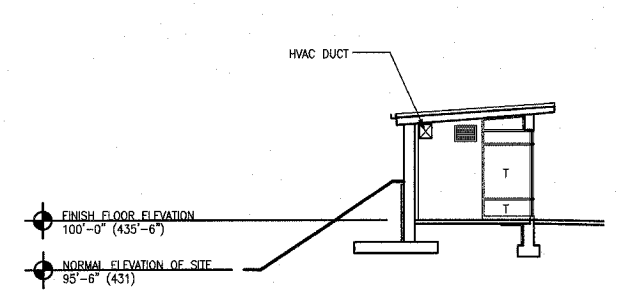
FEDERAL AID PROJECT



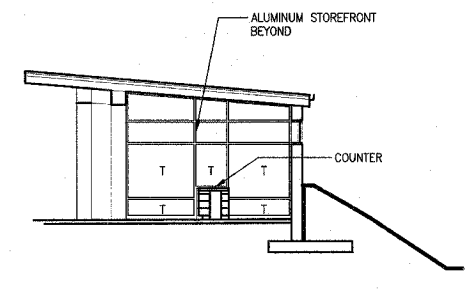
A NORTH BUILDING PLAZA ELEVATION
1/8"=1'-0"



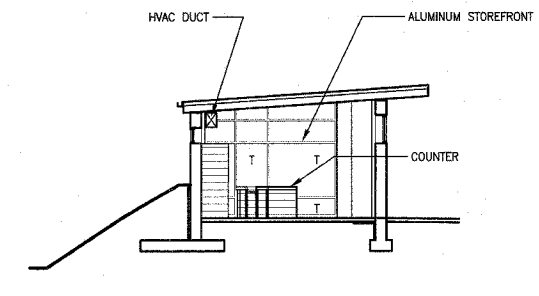
B SOUTH BUILDING PLAZA ELEVATION
1/8"=1'-0"



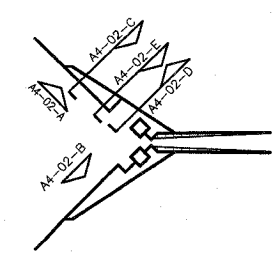
C SECTION AT NORTH BUILDING
1/8"=1'-0"



D SECTION AT NORTH BUILDING
1/8"=1'-0"



E SECTION AT NORTH BUILDING
1/8"=1'-0"



KEY PLAN, N.T.S.

P:\2002\10-02048\600DSC\PHASE-2\26\PHASE2\A4-02.DWG | 5/1/2006 3:47:04 PM | Xref's: BS-ELEV_TB24360L_BS-PLAN-2A | Images: none

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LEWIS AND CLARK MEMORIAL TOWER
VILLAGE OF HARTFORD, ILLINOIS
HARTFORD, ILLINOIS 62049

SHEET TITLE:
EXTERIOR BUILDING ELEVATIONS

DATE	REMARKS	REV. NO.

KENNEDY PROJECT NO
KAI# 10-02048

ISSUE DATE
APRIL 11, 2008

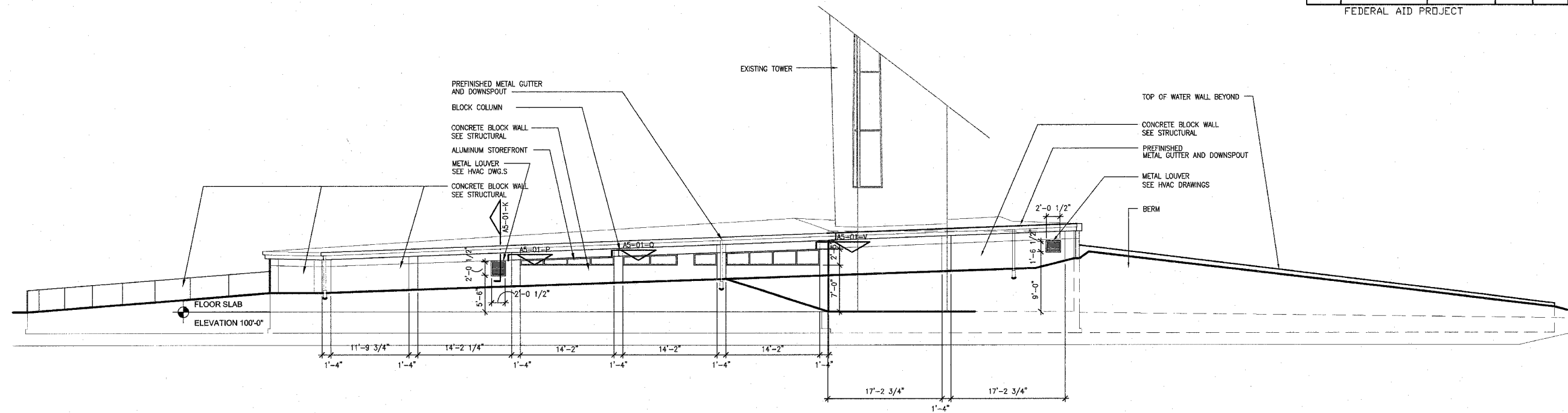
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A4-02

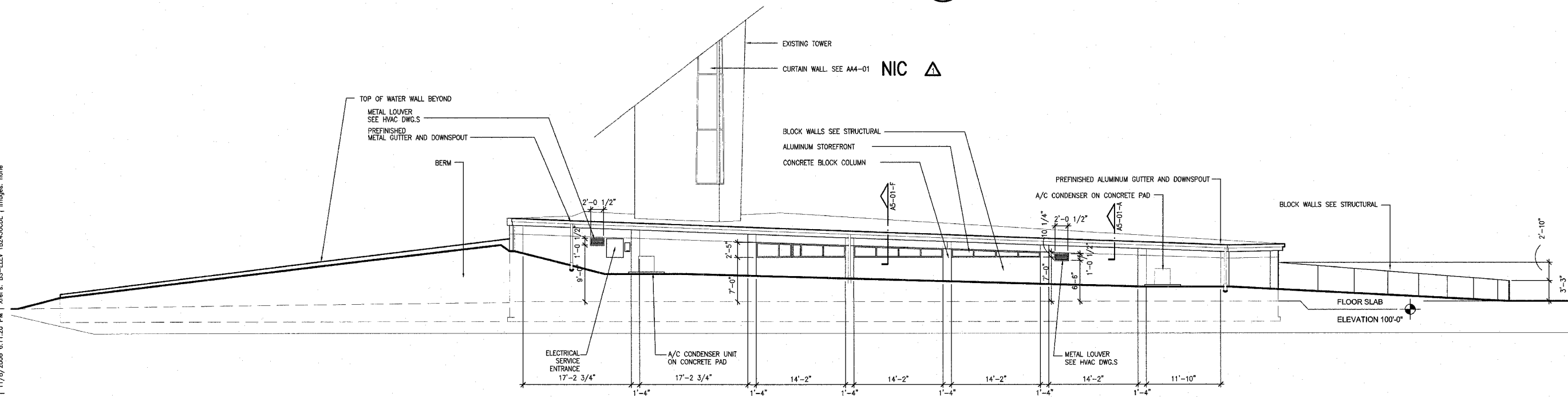
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	03-00026-00-PK 06-00026-01-MS	MADISON	53	30

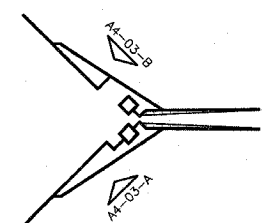
FEDERAL AID PROJECT



A SOUTH ELEVATION OF SOUTH BUILDING
1/8"=1'-0"



B NORTH ELEVATION OF NORTH BUILDING
1/8"=1'-0"



KEY PLAN, N.T.S.

211 N. Broadway
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LEWIS AND CLARK MEMORIAL TOWER
VILLAGE OF HARTFORD, ILLINOIS
HARTFORD, ILLINOIS 62049

SHEET TITLE:
EXTERIOR BUILDING ELEVATIONS

REV. NO.	DATE	REMARKS
1	11/9/06	DOT REV.

KENNEDY PROJECT NO
KAI 10-02048

ISSUE DATE
APRIL 11, 2008

SHEET NO

A4-03

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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	03-00026-00-PK 06-00026-01-MS	MADISON	53	31

FEDERAL AID PROJECT

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LEWIS AND CLARK MEMORIAL TOWER
VILLAGE OF HARTFORD, ILLINOIS
HARTFORD, ILLINOIS 62049

SHEET TITLE:
DETAILS

REV. NO.	DATE	REMARKS
1	11/9/06	
2		
3		
4		
5		
6		
7		
8		
9		
10		

KENNEDY PROJECT NO
KAI# 10-02048

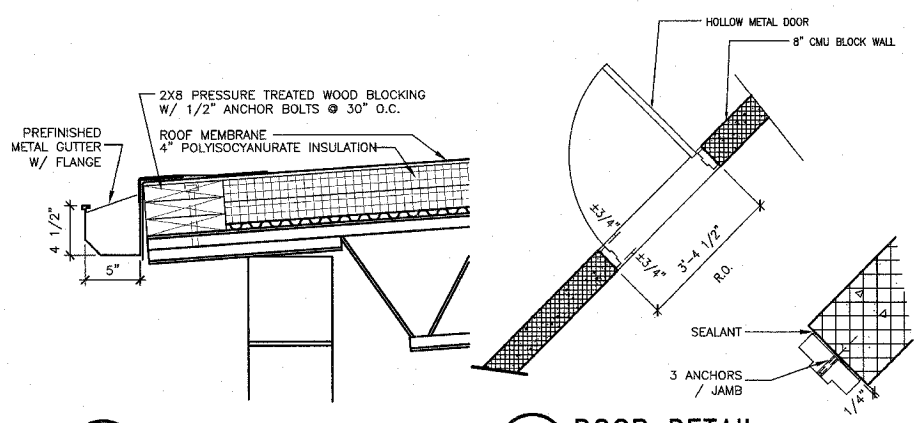
ISSUE DATE
APRIL 11, 2008

SHEET NO

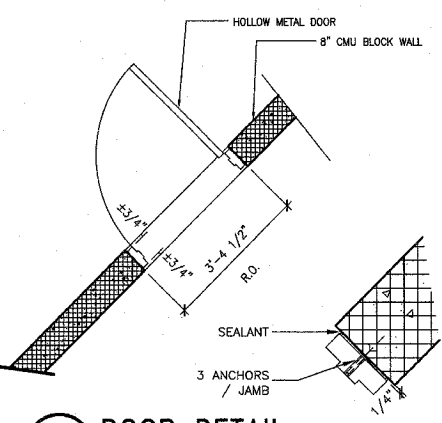
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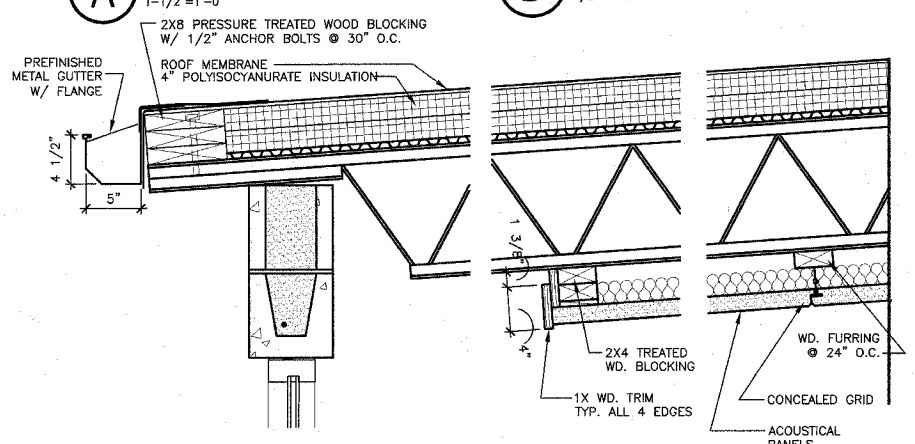
SEE STRUCTURAL DRAWINGS FOR ADDITIONAL DETAILS



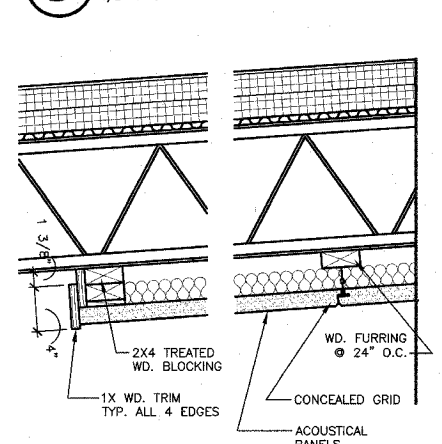
A ROOF EDGE
1-1/2"=1'-0"



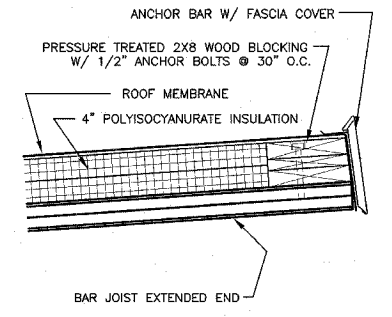
B DOOR DETAIL
1/2"=1'-0"



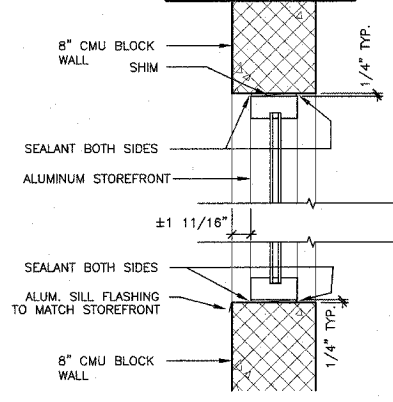
F ROOF EDGE
1-1/2"=1'-0"



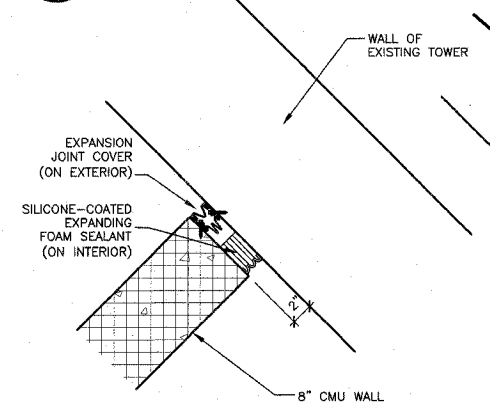
G ACOUSTICAL CEILING
1-1/2"=1'-0"



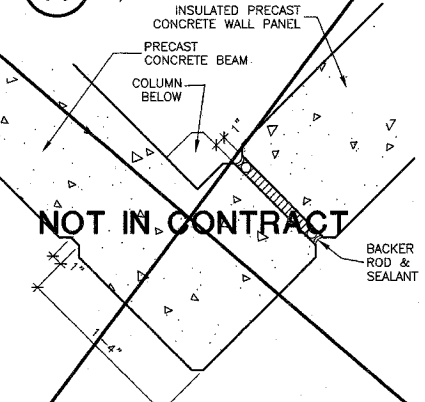
H ROOF EDGE
1-1/2"=1'-0"



J WINDOW DETAIL
1-1/2"=1'-0"

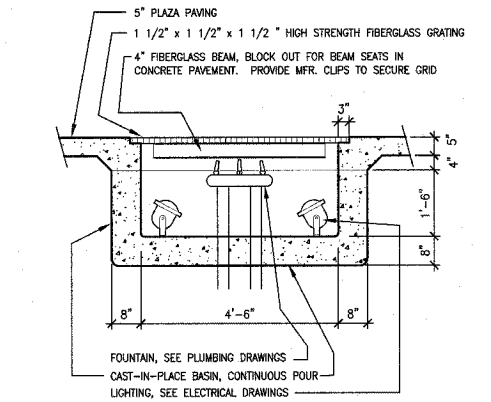


K EXPANSION JOINT
1-1/2"=1'-0"

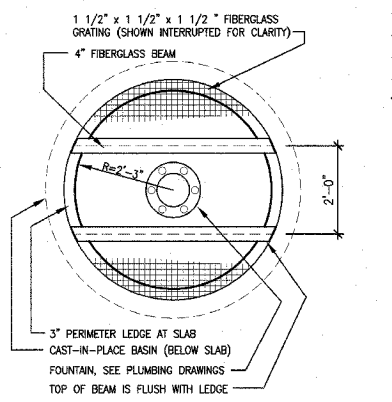


X LOUVER DETAIL
1-1/2"=1'-0"

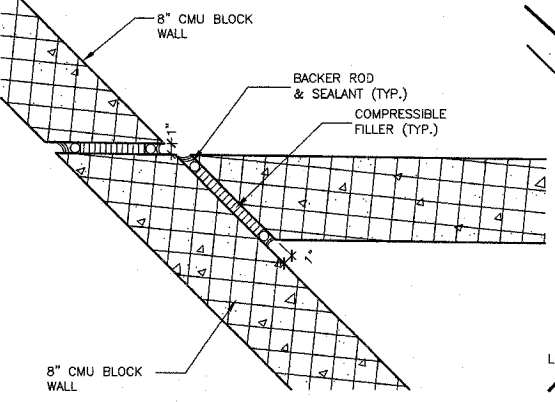
Y PLAN DETAIL
1-1/2"=1'-0"



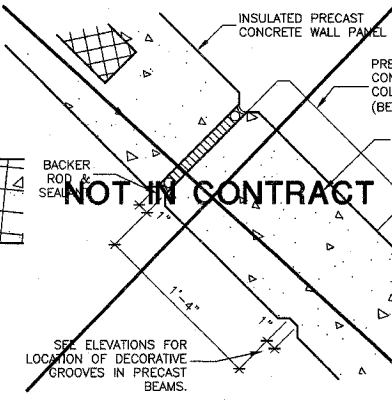
L FOUNTAIN SECTION
1/2"=1'-0"



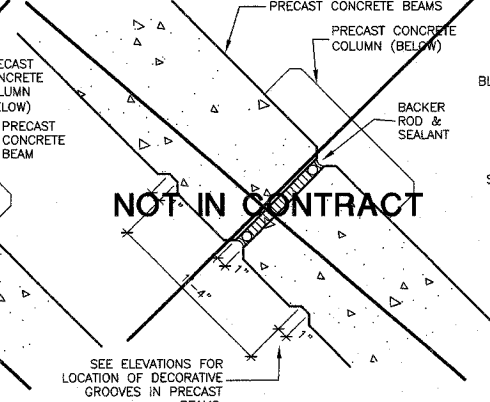
M FOUNTAIN PLAN
1/2"=1'-0"



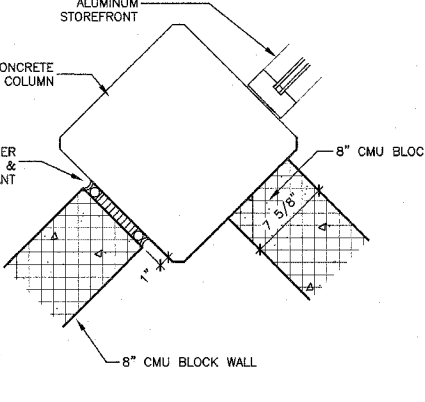
N PLAN DETAIL
1-1/2"=1'-0"



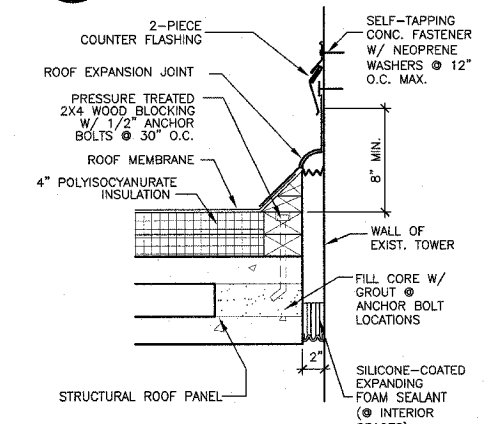
P PLAN DETAIL
1-1/2"=1'-0"



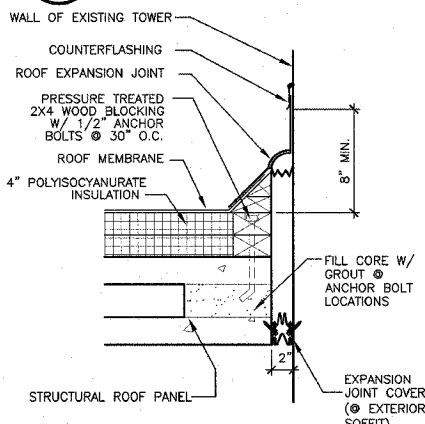
Q PLAN DETAIL
1-1/2"=1'-0"



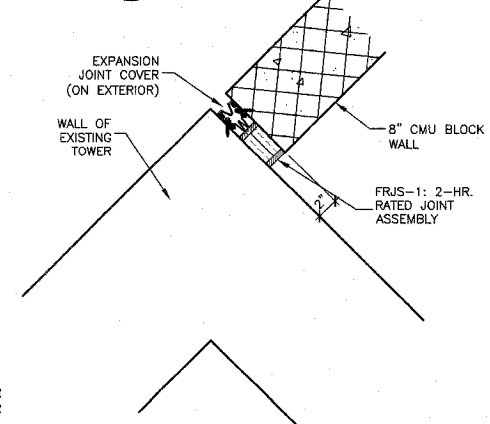
Z PLAN DETAIL
1-1/2"=1'-0"



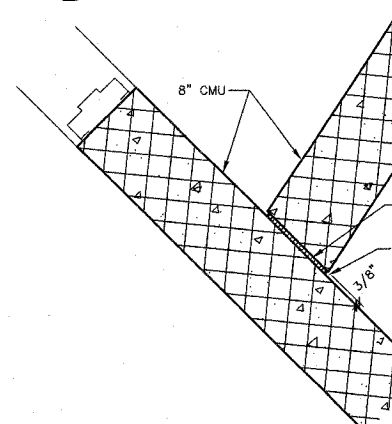
R EXPANSION JOINT
1-1/2"=1'-0"



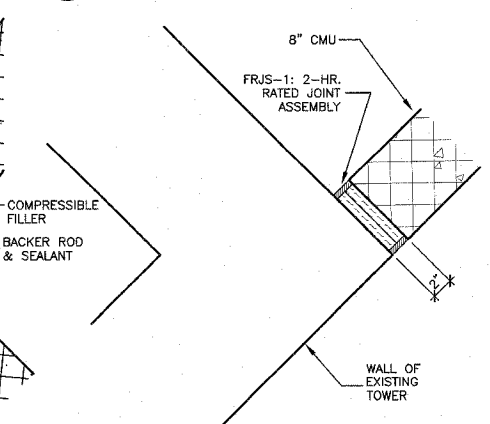
S EXPANSION JOINT
1-1/2"=1'-0"



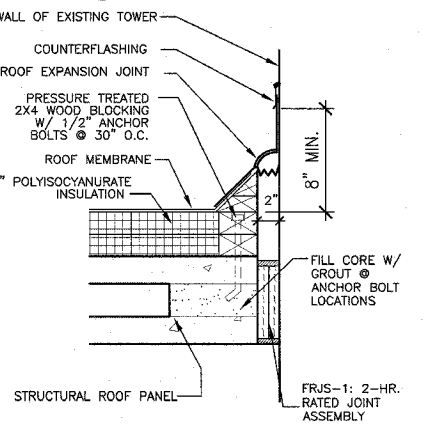
T RATED EXPANSION JOINT
1-1/2"=1'-0"



U PLAN DETAIL
1-1/2"=1'-0"



V RATED EXPANSION JOINT
1-1/2"=1'-0"



W RATED EXPANSION JOINT
1-1/2"=1'-0"

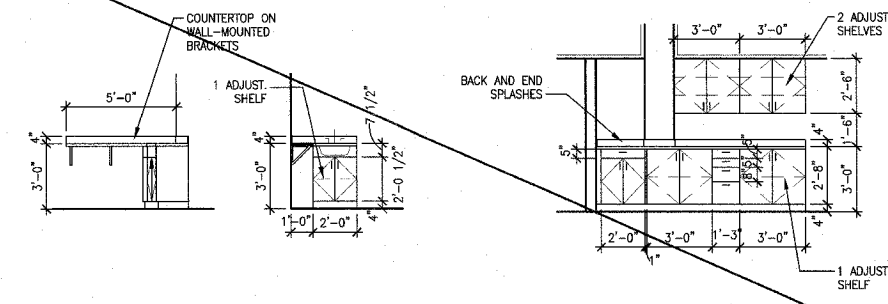
Drawing Stamp Information

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	03-00026-00-PK	MADISON	53	32
	06-00026-01-MS			

FEDERAL AID PROJECT

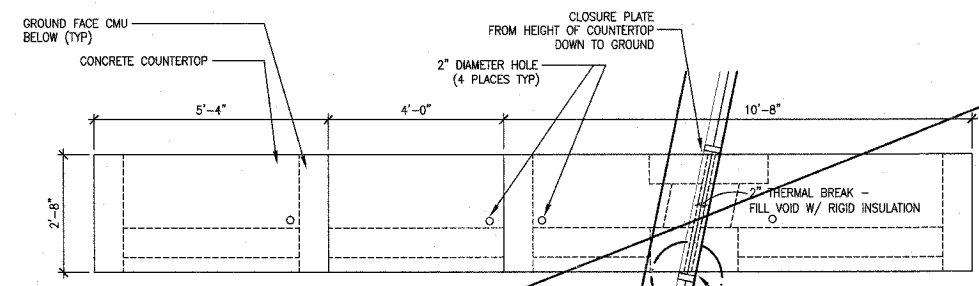
KEYED NOTES:

- 03-21 EXISTING PRECAST CONCRETE WALL
- 03-65 EXISTING PRECAST CONCRETE CONDUCTOR HEAD
- 05-54 #5 DOWELS
- 06-03 2 X TREATED WOOD BLOCKING
- 07-09 RIGID ROOF INSULATION
- 07-26 FLASHING
- 07-27 COUNTER FLASHING
- 07-28 EXTRUDED ALUMINUM COPING
- 07-37 ROOF HATCH
- 07-44 SEALANT
- 07-48 EPDM MEMBRANE
- 07-49 EPDM ROOFING
- 07-51 LAP SEALANT



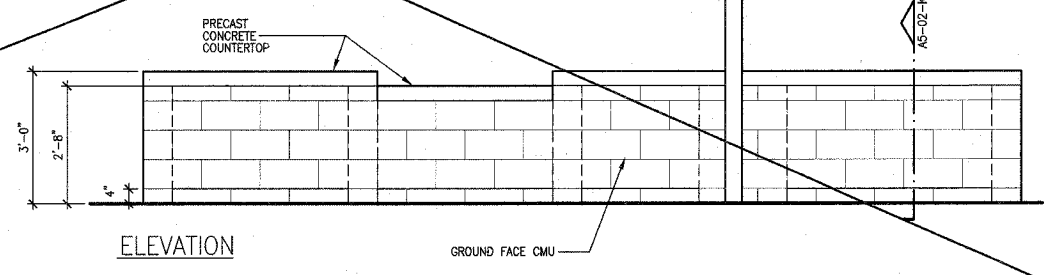
A ELEVATION @ VENDING
1/4"=1'-0"

B CABINETS @ CONTROL DESK
1/4"=1'-0"



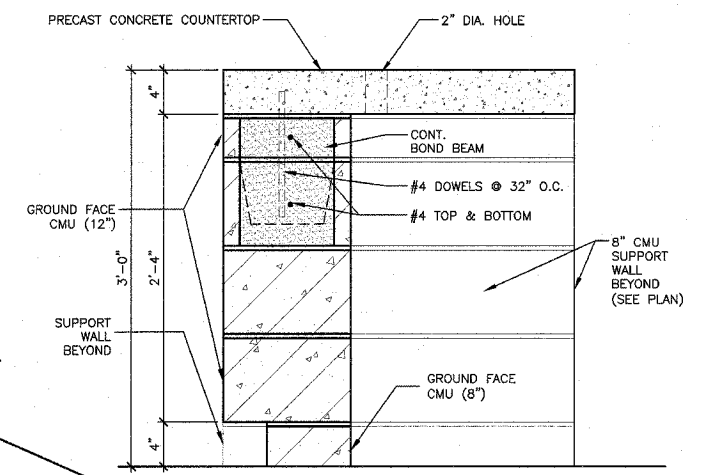
F PLAN DETAIL
1-1/2"=1'-0"
DETAIL BELOW COUNTER

OMIT FROM CONTRACT



ELEVATION

J COUNTER @ CONTROL DESK
1/2"=1'-0"



K SECTION THRU CONTROL DESK
1-1/2"=1'-0"

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(314) 241-8188
FAX (314) 241-0125

KAI

LEWIS AND CLARK MEMORIAL TOWER
VILLAGE OF HARTFORD, ILLINOIS
HARTFORD, ILLINOIS 62049

SHEET TITLE:
DETAILS

REV. NO.	REMARKS	DATE

KENNEDY PROJECT NO
KAI# 10-02048

ISSUE DATE
APRIL 11, 2008

SHEET NO

A5-02

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	03-00026-00-PK 06-00026-01-MS	MADISON	53	33

FEDERAL AID PROJECT

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KAI

LEWIS AND CLARK MEMORIAL TOWER
VILLAGE OF HARTFORD, ILLINOIS
HARTFORD, ILLINOIS 62049

SHEET TITLE:
MECHANICAL FLOOR PLAN

REV. NO.	REMARKS	DATE
1	1007 SUBMISSION	11-09-08

KENNEDY PROJECT NO
KAI# 10-02048

ISSUE DATE
APRIL 11, 2008

SHEET NO

M3-01

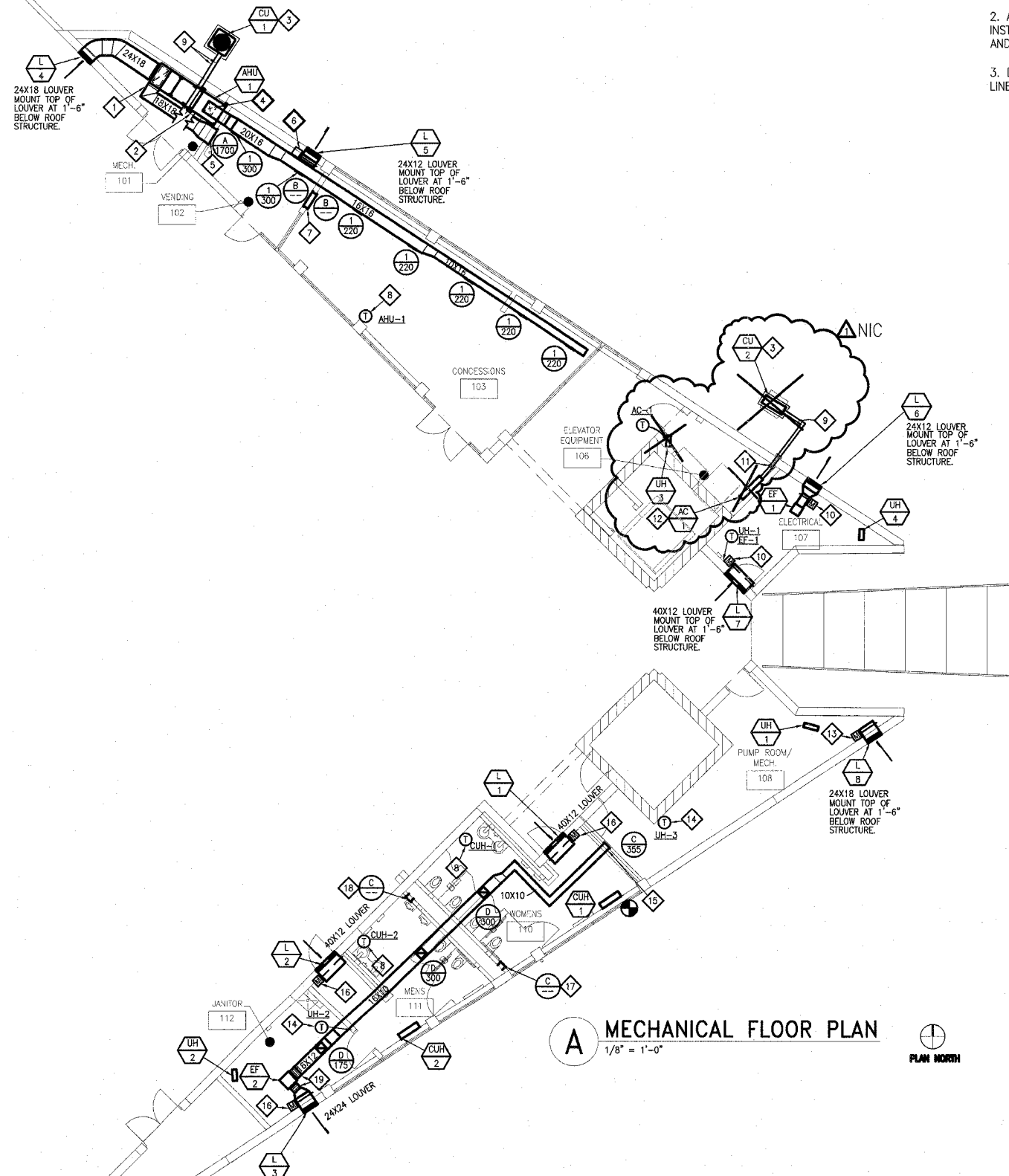
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GENERAL NOTES:

1. THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE, ALL WORK IS TO BE COORDINATED BETWEEN ALL TRADES BEFORE CONSTRUCTION.
2. ALL DUCTWORK, EQUIPMENT AND PIPING IS TO BE INSTALLED IN ACCORDANCE WITH ALL PERTINENT CODES AND SMACNA SEISMIC DESIGN REQUIREMENTS.
3. DUCT SIZES SHOWN ARE SHEETMETAL SIZES WITH 1" LINER.

KEYED NOTES:

- 1 SERVICE ACCESS FOR FILTER MAINTENANCE.
- 2 PROVIDE A 1" TYPE "L" COPPER CONDENSATE DRAIN PIPE AND EXTEND TO FLOOR DRAIN WITH A DOWNTURN 45° ELBOW. PROVIDE THREADED BRASS PLUG CLEANOUTS AT EACH CHANGE OF DIRECTION.
- 3 PROVIDE A 0'-4" THICK CONCRETE PAD THAT EXTENDS 0'-4" BEYOND EACH EDGE OF THE EQUIPMENT. SECURE CONDENSING UNIT TO PAD WITH STAINLESS STEEL CONCRETE ANCHORS AND SCREWS.
- 4 PROVIDE 90° ELBOW WITH TURNING VANES AND SIZE TO MATCH CONNECTION OF AHU-1.
- 5 MOUNT RETURN GRILLE AS HIGH AS DUCTWORK WILL ALLOW.
- 6 PROVIDE AN ADJUSTABLE WEIGHTED BAROMETRIC RELIEF DAMPER. ADJUST WEIGHTS TO MAINTAIN A SLIGHTLY POSITIVE BUILDING PRESSURIZATION.
- 7 MOUNT TOP OF TRANSFER GRILLES SO THAT THEY ARE LEVEL WITH GRILLE "B" ON OPPOSITE WALL.
- 8 PROVIDE A SEVEN DAY PROGRAMMABLE HEATING/COOLING THERMOSTAT WITH WHITE METAL LOCKABLE THERMOSTAT GUARD.
- 9 SUCTION AND LIQUID REFRIGERANT PIPING SIZED BY CONDENSING UNIT MANUFACTURER.
- 10 INTERLOCK DAMPER TO OPEN WITH ACTIVATION OF EF-1. PROVIDE AN 20 GAGE GALVANIZED PLENUM TO MOUNT DAMPER.
- 11 PROVIDE A 1" TYPE "L" COPPER CONDENSATE DRAIN PIPE AND EXTEND DOWN INTERIOR WALL AND PENETRATE AT 0'-6" ABOVE FINISHED GRADE AND TERMINATE WITH A 45° DOWNTURN ELBOW. PROVIDE THREADED BRASS PLUG CLEANOUTS AT EACH CHANGE OF DIRECTION.
- 12 MOUNT AC-1 AT AN ELEVATION THAT ALLOWS FOR PROPER CONDENSATE DRAINAGE AND MAINTENANCE.
- 13 INTERLOCK DAMPER TO OPEN WITH ACTIVATION OF EXISTING EXHAUST FAN IN JANITOR'S 112. PROVIDE AN 20 GAGE GALVANIZED PLENUM TO MOUNT DAMPER.
- 14 PROVIDE A LOW VOLTAGE HEATING ONLY THERMOSTAT WITH WHITE METAL LOCKABLE GUARD.
- 15 PROVIDE NEW OPENING WITH NEW DUCT CONNECTION TO EXISTING 10"x10" EXHAUST DUCT. EXTEND NEW DUCT THROUGH OPENING AND CONNECT TO NEW REGISTER, "C".
- 16 INTERLOCK DAMPER TO OPEN WITH ACTIVATION OF EF-2. PROVIDE AN 20 GAGE GALVANIZED PLENUM TO MOUNT DAMPER.
- 17 MOUNT TOP OF GRILLE AT 1'-6" BELOW STRUCTURE. EXTEND DUCTWORK INTO CHASE AND LEAVE END OPEN TO SPACE.
- 18 MOUNT TOP OF GRILLE AT 1'-6" BELOW STRUCTURE. EXTEND DUCTWORK INTO CHASE AND LEAVE END OPEN TO SPACE.
- 19 FLEXIBLE CONNECTORS.



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



Drawing Stamp Information

FEDERAL AID PROJECT

211 N. Broadway
Suite 1900
St. Louis, MO 63102
(314) 241-8188
FAX (314) 241-0125

KAI

LEWIS AND CLARK MEMORIAL TOWER
VILLAGE OF HARTFORD, ILLINOIS
HARTFORD, ILLINOIS 62049

SHEET TITLE:
MECHANICAL SCHEDULES

REV. NO.	DATE	REMARKS
1	11-08-08	ISSUED FOR SUBMISSION

KENNEDY PROJECT NO
KAI# 10-02048

ISSUE DATE
APRIL 11, 2008

SHEET NO

M3-02

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AIR HANDLING UNIT

MARK	AREA SERVED	MFR.	MODEL	SUPPLY FAN				OUTDOOR AIR				DX COOLING COIL CAPACITIES						ELECTRIC HEATING COIL CAPACITIES				ELECTRICAL V/PH/HZ	NOTES		
				NOM CFM	TSP "WC	ESP "WC	HP	CFM	DB °F	WB °F	SENS. MBH	TOT. MBH	EAT DB °F	EAT WB °F	LAT DB °F	LAT WB °F	AIR PD "WC	TOT. MBH	EAT DB °F	LAT DB °F	ELECTRICAL KW			V/PH/HZ	AIR PD "WC
				3	MOD.	95	78	33.5	36.8	78	65	60	58	.56	58	56	88	17	208/3/60	.02	208/3/60				
AHU-1	CONCESSIONS/VENDING	CARRIER	39MN03	1700	2.17	1.00	3	MOD.	95	78	33.5	36.8	78	65	60	58	.56	58	56	88	17	208/3/60	.02	208/3/60	1 THRU 12

- NOTES:
 1.) DX COOLING COIL
 2.) ELECTRIC HEATING COIL
 3.) COIL ACCESS SECTION
 4.) SUPPLY FAN SECTION
 5.) ANGLE FILTER MIXING BOX WITH 2" CARBON FILTERS
 6.) EXTENDED LUBRICATION LINES
 7.) 2" SPRING ISOLATORS ON FAN
 8.) 6" BASE RAIL (NEOPRENE PAD BETWEEN FLOOR AND RAIL)
 9.) BELT GUARD
 10.) FACTORY-MOUNTED STARTER AND DISCONNECT
 11.) CO2 SENSOR MOUNTED IN RETURN AIR DUCT
 12.) SEVEN DAY PROGRAMMABLE THERMOSTAT

ELEVATOR ROOM UNIT

MARK	AREA SERVED	MFR.	MODEL	FAN		COOLING CAPACITIES			ELEC. REHEAT		ELECTRICAL			OPER. WT. LBS.	NOTES	
				NOM CFM	ESP "WC	SENS. MBH	TOT. MBH	EAT DB °F	REFRIG. TYPE	BTUH	FAN HP	V/PH/HZ	INDOOR FLA			
AC-1	ELEVATOR EQUIPMENT	CARRIER	38NE018	726	-	-	10.5	88	87	R-22	18,000	1/10	208/1/60	.4	27.5	1,2

- NOTES:
 1.) MICROPROCESSOR CONTROL/THERMOSTAT
 2.) REFRIGERANT LINE SET SIZED BY MANUFACTURER

AIR COOLED CONDENSING UNIT

MARK	UNIT SERVED	MFR.	MODEL	COOLING		O.A. TEMP.		COMPRESSOR		CONDENSER		UNIT SEER	REFR. R-	ELECTRICAL		OPER. WT. LBS.	NOTES
				CAP. MBH	CAP. MBH %	DES. AMB °F	MIN. AMB °F	QTY. TONS	QTY. EACH	QTY. FANS	HP EACH			V/PH/HZ	FLA (MCA)		
				36	-	95	0	1	3	1	1/5			12	22		
CU-1	AHU-1	CARRIER	38BRG036	36	-	95	0	1	3	1	1/5	12	22	208/3/60	(20)	186	1,2,3,4,5,6,7,8,9,10,11

- NOTES:
 1.) BALL-BEARING CONDENSER FAN MOTOR
 2.) START CAPACITOR AND RELAY
 3.) CRANKCASE HEATER
 4.) ANTI-SHORT CYCLE TIMER
 5.) EVAPORATOR FREEZE STAT
 6.) SUCTION AND LIQUID LINE FILTER DRIER(S)
 7.) HIGH PRESSURE CUT-OUT
 8.) LOW PRESSURE CUT-OUT
 9.) FAN SPEED CONTROL FOR LOW AMB. OPERATION
 10.) THERMOSTATIC EXPANSION VALVE
 11.) WINTER START CONTROLLER

AIR DEVICE

SUPPLY DIFFUSERS									EXHAUST / RETURN / TRANSFER GRILLES										
PLAN MARK	MANUFACTURER & MODEL NO.	NECK SIZE	FACE SIZE	MOUNT	MATE-RIAL	ACCES-SORIES	FINISH	TYPE	NOTES	PLAN MARK	MANUFACTURER MODEL NO.	NECK SIZE	FACE SIZE	MOUNT	MATE-RIAL	ACCES-SORIES	FINISH	TYPE	NOTES
1	TITUS 300FS	12X10	14X12	DUCT SIDEWALL	AL	VC	BWE	DD		A	TITUS 350FL	24X24	-	DRYWALL SIDEWALL	AL	VC	BWE	FAB	
										B	TITUS 350FL	24X20	-	DRYWALL SIDEWALL	AL	-	BWE	FAB	
										C	TITUS 350FL	10X10	-	DRYWALL SIDEWALL	AL	VC	BWE	FAB	
										D	TITUS 350FL	12X12	-	DUCT SIDEWALL	AL	VC	BWE	FAB	

MATERIAL AL - ALUMINUM
FINISH BWE - BAKED WHITE ENAMEL
ACCESSORIES VC - VOLUME CONTROL DAMPER
TYPE FAB - FIXED ANGLE BLADE DD - DOUBLE DEFLECTION

LOUVER

MARK	MFR.	MODEL	SIZE HxWxD	FUNCTION	MATERIAL			FREE AREA VELOCITY	EFFECTIVENESS RATIO %	STATIC PRESS. DROP	NOTES
					FRAME	BLADE	FINISH				
L-1	RUSKIN	EMES20DD	12X40X5	INTAKE	ALUM.	ALUM.	CLEAR. ANODIZED	500	99.3	.04	1
L-2	RUSKIN	EMES20DD	12X40X5	INTAKE	ALUM.	ALUM.	CLEAR. ANODIZED	500	99.3	.04	1
L-3	RUSKIN	EMES20DD	24X24X5	EXHAUST	ALUM.	ALUM.	CLEAR. ANODIZED	500	99.3	.04	1
L-4	RUSKIN	EMES20DD	18X24X5	INTAKE	ALUM.	ALUM.	CLEAR. ANODIZED	500	99.3	.04	1
L-5	RUSKIN	EMES20DD	12X24X5	EXHAUST	ALUM.	ALUM.	CLEAR. ANODIZED	500	99.3	.05	1
L-6	RUSKIN	EMES20DD	12X24X5	EXHAUST	ALUM.	ALUM.	CLEAR. ANODIZED	500	99.3	.05	1
L-7	RUSKIN	EMES20DD	12X40X5	INTAKE	ALUM.	ALUM.	CLEAR. ANODIZED	500	99.3	.04	1
L-8	RUSKIN	EMES20DD	18X24X5	INTAKE	ALUM.	ALUM.	CLEAR. ANODIZED	500	99.3	.04	1

- NOTES:
 1.) INSECT SCREEN

ELECTRIC HEATER

MARK	AREA SERVED	MFR.	MODEL	TYPE	CFM H/L	KW	STEPS	MBH	ELECTRICAL		OPER. WT. LBS.	NOTES
									V/PH/HZ	FLA (MCA)		
UH-1	PUMP/MECH.	MARKEL	5100	WALL-MOUNT	400	10	1	34.1	208/3/60	20.8	55	1,7,8,9,10
UH-2	JANITOR	MARKEL	5100	WALL-MOUNT	400	3.3	1	11.5	208/3/60	6.9	30	1,7,8,9,10
UH-3	ELEV. EQUIP.	MARKEL	5100	WALL-MOUNT	400	3.3	1	11.5	208/3/60	6.9	30	1,7,8,9,10
UH-4	ELECT.	MARKEL	5100	WALL-MOUNT	400	3.3	1	11.5	208/3/60	6.9	30	1,7,8,9,10
CUH-1	WOMEN'S	MARKEL	6333-06	FLOOR-MOUNT	250/230	6	2	20.4	208/3/60	17.6	118	1,2,3,4,5,6
CUH-2	MEN'S	MARKEL	6333-06	FLOOR-MOUNT	250/230	6	2	20.4	208/3/60	17.6	118	1,2,3,4,5,6

- NOTES:
 1.) 3-POLE CIRCUIT BREAKER/DISCONNECT
 2.) 1" PLEATED MEDIA FILTER
 3.) KICK SPACE PEDESTAL
 4.) FRONT INLET/TOP OUTLET
 5.) FACTORY MOUNTED TRANSFORMER
 6.) INTEGRAL THERMOSTAT
 7.) WALL BRACKET WITH DUST SHIELD
 8.) OSHA FAN GUARD
 9.) LOW VOLTAGE THERMOSTAT
 10.) TRANSFORMER AND CONTACTOR

EXHAUST FAN

MARK	AREA SERVED	MFR.	MODEL	TYPE	CFM	E.S.P. (" WC)	RPM	DRIVE	SONES	ELECTRICAL		OPER. WT. LBS.	NOTES	
										HP	V/PH/HZ			FLA (MCA)
EF-1	ELECTRICAL	COOK	60SQN-B	ILC	175	.25	1754	BELT	9.4	1/6	115/1/60	4.4	145	1,2,3,4,5,6,8,10,12
EF-2	TOL./PUMP	COOK	120SQN-B	ILC	1130	.35	1370	BELT	12.5	1/4	115/1/60	5.8	193	1,2,3,4,5,6,7,8,9,10,11,12

- NOTES:
 1.) PRE-WIRED DISCONNECT SWITCH
 2.) EXTENDED LUBRICATION LINES
 3.) THERMAL OVERLOAD MOTOR
 4.) SPRING VIBRATION ISOLATION HANGERS
 5.) OSHA GUARD/MOTOR COVER
 6.) 24 HOUR TIME CLOCK
 7.) 115V MOTORIZED DAMPER
 8.) FLANGED INLET
 9.) FLANGED OUTLET
 10.) INLET COMPRESSION FLANGE
 11.) OUTLET COMPRESSION FLANGE
 12.) INLET/OUTLET FLEXIBLE DUCT CONNECTORS
 ILC - INLINE CENTRIFUGAL EXHAUST OR SUPPLY FAN
 NOTE: FANS SELECTED BASED UPON A MEDIUM DRIVE LOSS FOR BELT DRIVEN MODELS. FANS ALSO SELECTED AT AN ALTITUDE OF 498 FT AND 70F.

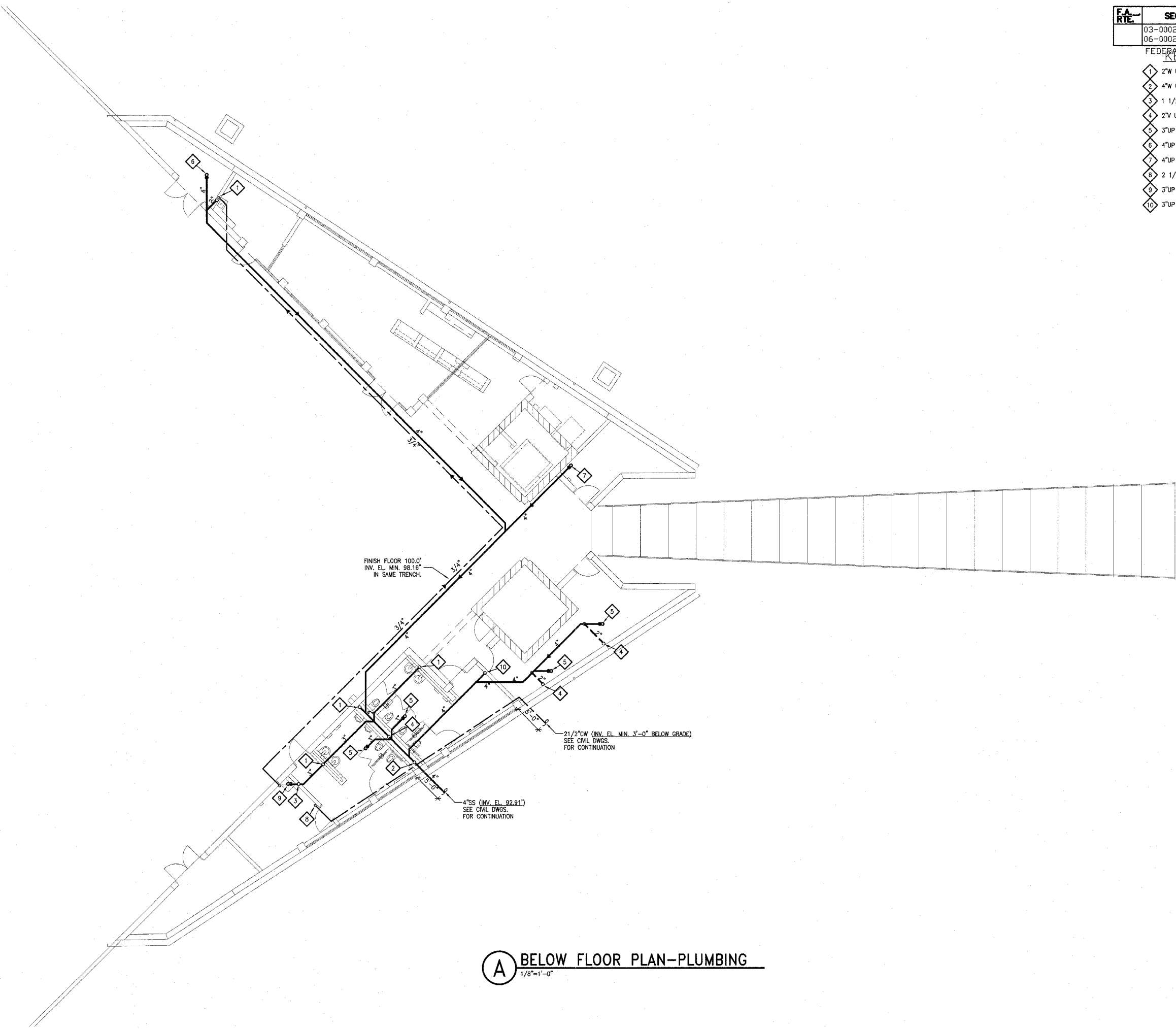
H.V.A.C. DAMPER SPECIFICATIONS

MANUFACTURER	RUSKIN	RUSKIN	RUSKIN	RUSKIN	RUSKIN
MODEL	MD25	MD35	CD60	CD50	CD102
DAMPER TYPE	BALANCING OVER 12"	BALANCING OVER 12"	CONTROL	CONTROL	CONTROL
FUNCTION	BALANCING 12" DUCT AND UNDER	BALANCING 13" DUCT AND OVER	RETURN AIR	OUTSIDE AIR INTAKE	FAN DISCHARGE
SHAPE	RECTANGULAR	RECTANGULAR	RECTANGULAR	RECTANGULAR	RECTANGULAR
MAX. PRESSURE ("WG)	2" (36"W)	2" (36"W)	6.2" (48"W)	6.2"	12.0"
MAX. VELOCITY (FPM)	1500	1500	4000	4000	4000
MAX. PD @ MAX VELOCITY (24X24, 24"DIA)	0.05"WG	0.05"WG	0.03"WG	0.02"WG	0.01"WG
LEAKAGE @ 1"WG (CFM/SQ.FT.)	-	80@1.0"WG	2.0@1.0"WG	2.0@1.0"WG	8.5@1.0"WG
BLADE MATERIAL	GALV. STEEL	GALV. STEEL	GALV. STEEL	ALUMINUM	ALUMINUM
BLADE CONSTRUCTION	8" WIDE 16 GAGE REINFORCED	8" WIDE 16 GAGE REINFORCED	14 GAGE ROLL FORMED	6" WIDE 6063-T5 EXTRUDED	7.75" WIDE 0.080 6063-T5 EXTRUDED
BLADE TYPE	SINGLE SKIN	SINGLE SKIN	AIRFOIL	AIRFOIL	AIRFOIL
BLADE SEAL MATERIAL	NONE	NONE	NEOPRENE	NEOPRENE	SILICONE RUBBER
FRAME MATERIAL	GALV. STEEL	GALV. STEEL	GALV. STEEL	ALUMINUM	GALV. STEEL
FRAME CONSTRUCTION	5"X1" 16 GAGE	5"X1" 16 GAGE	16 GAGE HAT CHANNEL	5"X1" 0.125" EXTRUDED	10"X2" 12 GA. STEEL CHANNEL
AXLE MATERIAL	STEEL	STEEL	PLATED STEEL	PLATED STEEL	PLATED STEEL
AXLE DIAMETER	3/8" SQUARE	3/8" SQUARE	1/2"	1/2"	3/4"
BEARING MATERIAL (TYPE)	SYNTHETIC	SYNTHETIC	STAINLESS STEEL	SYNTHETIC	STAINLESS STEEL
NOTES	-	-	-	-	-

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	03-00026-00-PK 06-00026-01-MS	MADISON	53	35

FEDERAL AID PROJECT
KEYED NOTES:

- 1 2"W UP
- 2 4"W UP
- 3 1 1/2"V UP
- 4 2"V UP
- 5 3"UP TO, ED-1
- 6 4"UP TO, ED-2
- 7 4"UP TO, ED-3
- 8 2 1/2" CW UP, SEE SHEET P3-02 FOR CONTINUATION.
- 9 3"UP TO, MB-1
- 10 3"UP TO, WCO



A BELOW FLOOR PLAN-PLUMBING
1/8"=1'-0"

211 N. Broadway
Suite 1900
St. Louis, MO
63102
(314) 241-8188
FAX (314) 241-0125



LEWIS AND CLARK MEMORIAL TOWER
VILLAGE OF HARTFORD, ILLINOIS
HARTFORD, ILLINOIS 62049

SHEET TITLE:
**BELOW FLOOR PLAN-
PLUMBING**

DATE	BY

KENNEDY PROJECT NO
KAI 10-02048

ISSUE DATE
APRIL 11, 2008

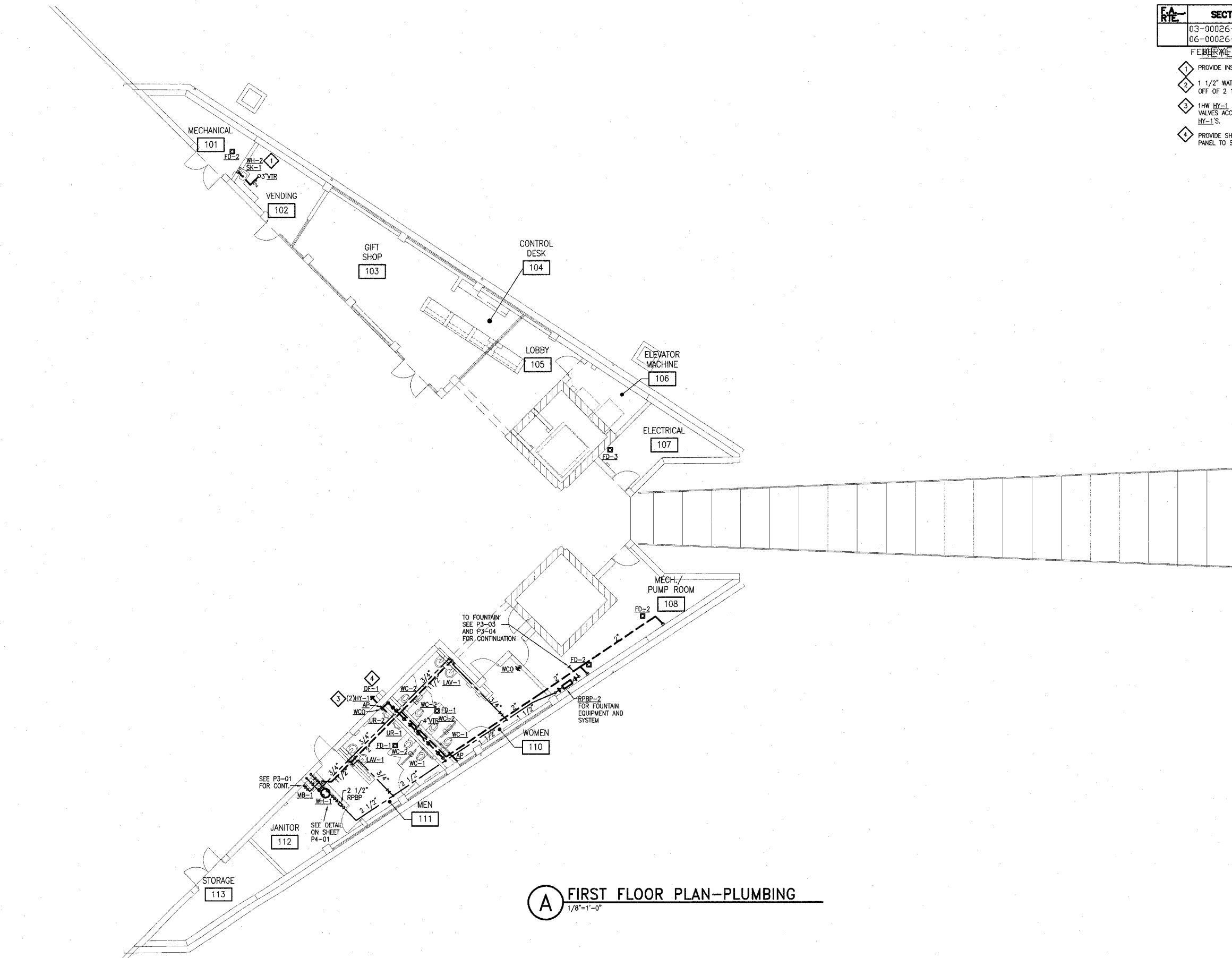
SHEET NO

P3-01

FA- RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	03-00026-00-PK 06-00026-01-MS	MADISON	53	36

PERMITS AND NOTES

- 1 PROVIDE INSTANTANEOUS WATER FOR SK-1.
- 2 1 1/2" WATER TO MAIN SERVICE IN JANITOR'S ROOM OFF OF 2 1/2".
- 3 1HW HY-1 AND 1 CW HY-1, PROVIDE SHUT OFF VALVES ACCESSIBLE BY ACCESS PANEL TO SHUT OFF HY-1'S.
- 4 PROVIDE SHUT OFF VALVE ACCESSIBLE BY ACCESS PANEL TO SHUT OFF DE-1.



A FIRST FLOOR PLAN-PLUMBING
1/8"=1'-0"

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LEWIS AND CLARK MEMORIAL TOWER
VILLAGE OF HARTFORD, ILLINOIS
HARTFORD, ILLINOIS 62049

SHEET TITLE:
**FIRST FLOOR PLAN-
PLUMBING**

REV. NO.	REMARKS	DATE

KENNEDY PROJECT NO
KAI# 10-02048

ISSUE DATE
APRIL 11, 2008

SHEET NO

P3-02

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	03-00026-00-PK 06-00026-01-MS	MADISON	53	37

FEDERAL AID PROJECT

KEYED NOTES:

- 1 SEE FOUNTAIN DETAILS ON SHEET PA3-04.
 - 2 COMPASS FOUNTAIN/WATERFALL FOUNTAIN CONTROLLER SHALL BE UL LISTED, NEMA 3R, WITH SINGLE POINT ELECTRICAL CONNECTION. CONTROLLER SHALL INCLUDE THE FOLLOWING:
 - *HAND-OFF-AUTO SWITCH (ONE FOR EACH FILTER/PUMP ASSEMBLY (FP-1, FP-2))
 - *TIMER FOR EACH SYSTEM
 - *INTERNAL BREAKERS
 - *LOW VOLTAGE TRANSFORMER FOR CONTROLS
 - *MICRO PROCESSOR FOR OPERATION
- SEE ELECTRICAL FOR SERVICE FEEDER AND PANEL.

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LEWIS AND CLARK MEMORIAL TOWER
VILLAGE OF HARTFORD, ILLINOIS
HARTFORD, ILLINOIS 62049

SHEET TITLE:
**FIRST FLOOR PLAN-
FOUNTAIN PIPING-
PLUMBING**

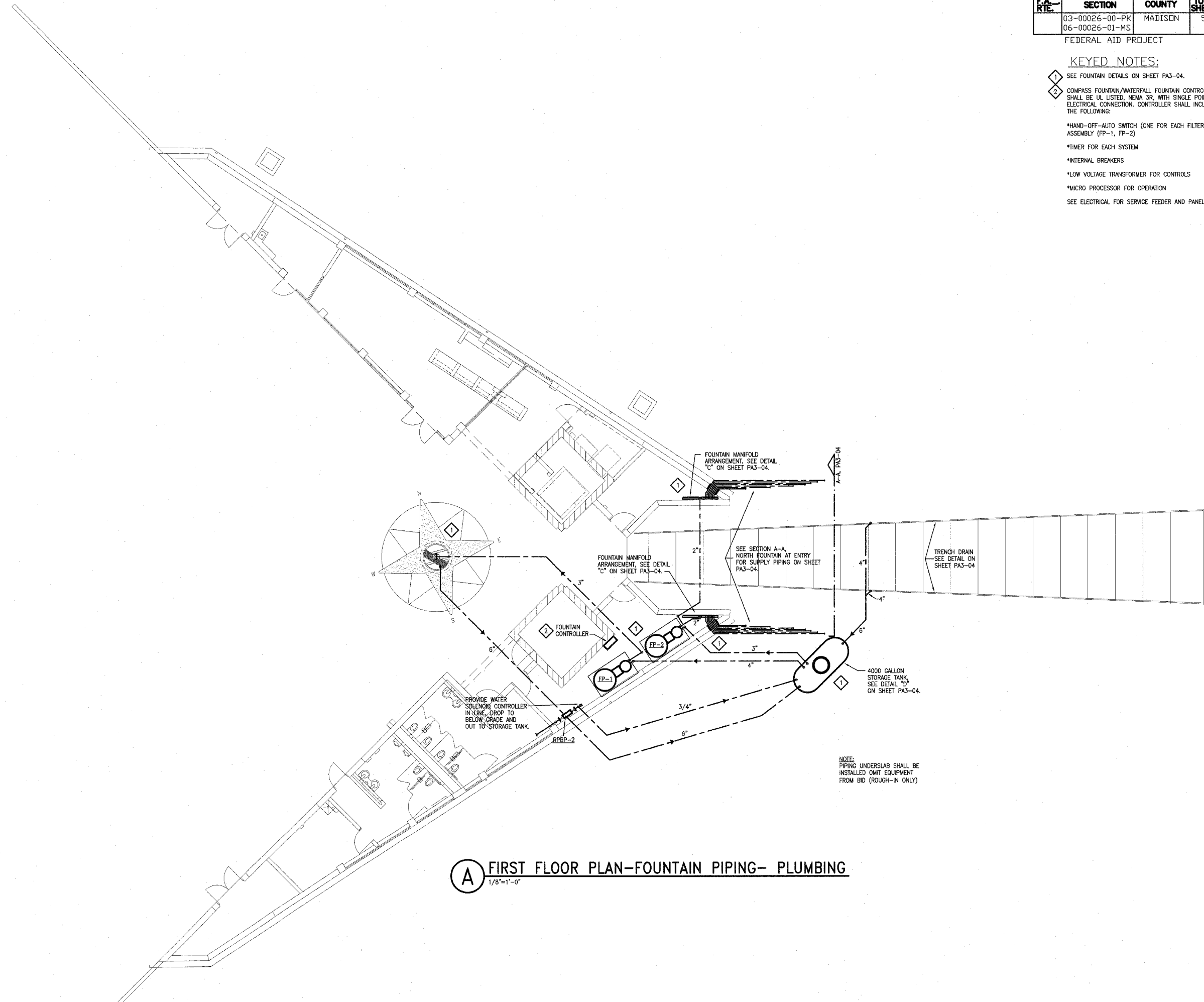
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KENNEDY PROJECT NO
KAI# 10-02048

ISSUE DATE
APRIL 11, 2008

SHEET NO
P3-03

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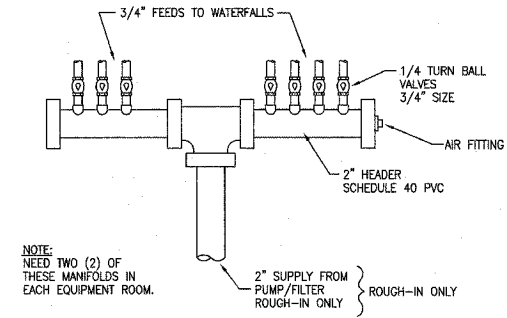


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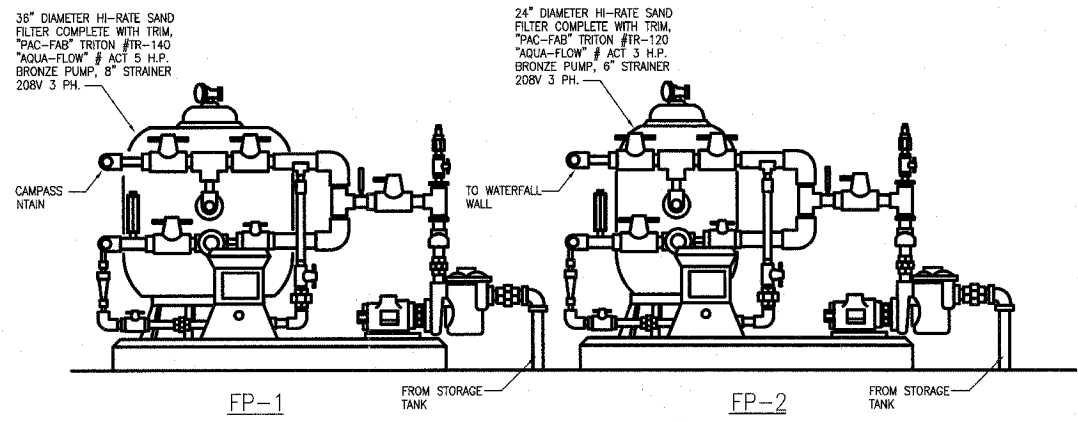
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	03-00026-00-PK 06-00026-01-MS	MADISON	53	38

FEDERAL AID PROJECT

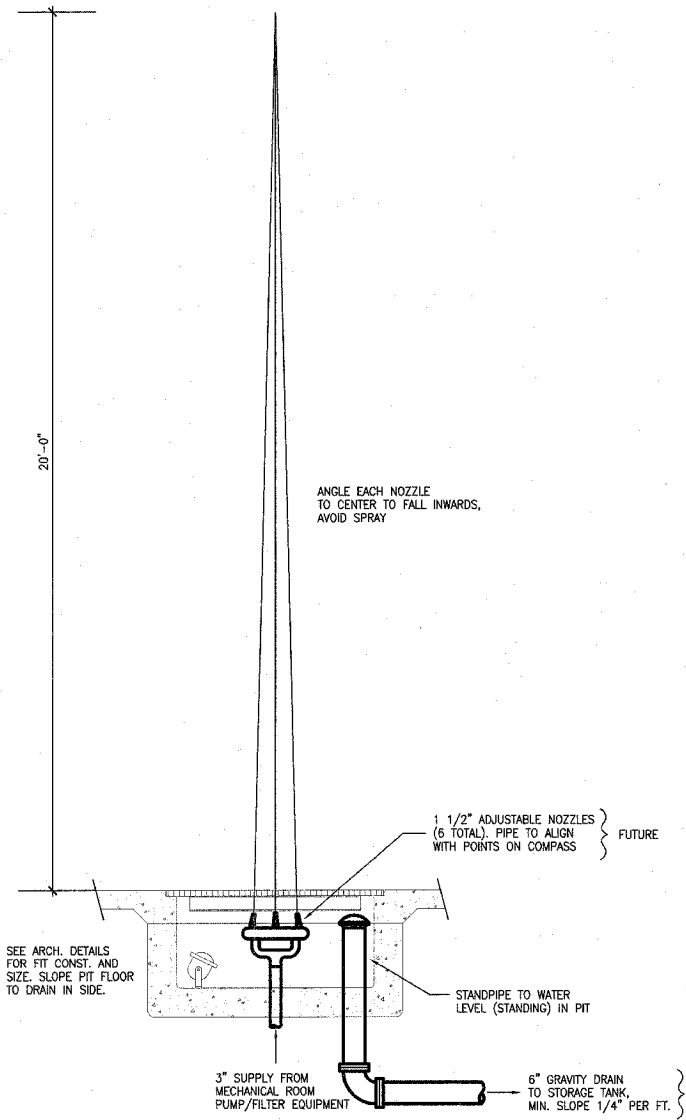
NOTE:
PROVIDE AIR FITTING ON SYSTEM
TO BLOW OUT FOR FREEZING PROTECTION.



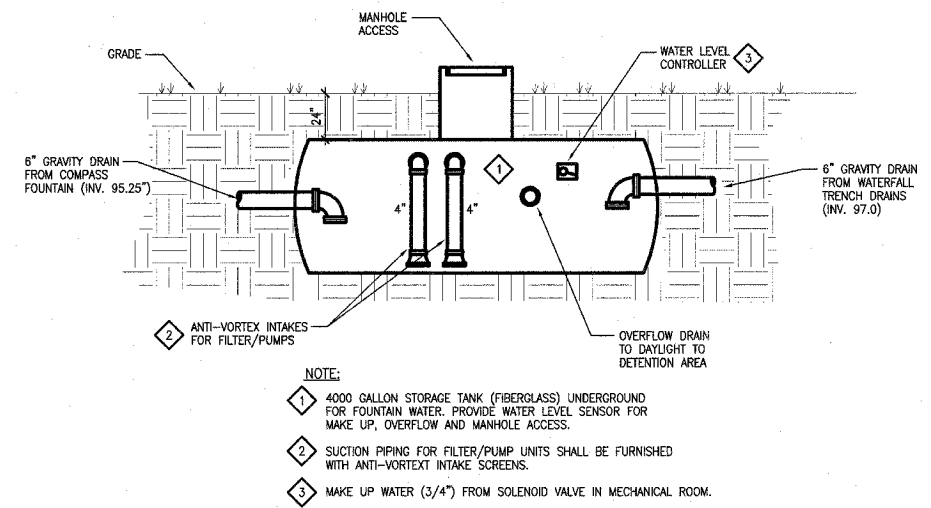
C FUTURE FOUNTAIN MANIFOLD ARRANGEMENT
NOT TO SCALE



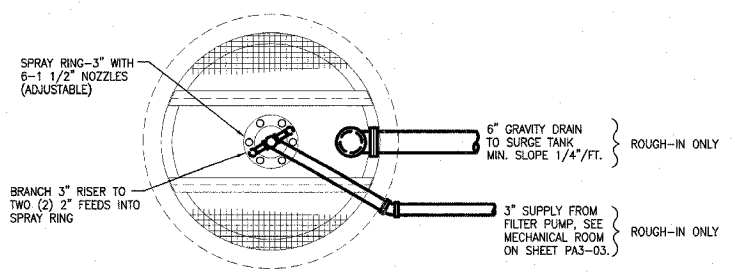
A FUTURE FILTER PUMP PIPING ARRANGEMENT
NOT TO SCALE



E FOUNTAIN SECTION
1/2"=1'-0"



D SCHEMATIC PIPING OF STORAGE TANK (ROUGH-IN ONLY)
NOT TO SCALE



F FOUNTAIN PLAN
1/2"=1'-0"

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LEWIS AND CLARK MEMORIAL TOWER
VILLAGE OF HARTFORD, ILLINOIS
HARTFORD, ILLINOIS 62049

SHEET TITLE:
FOUNTAIN ISOMETRIC & DETAILS- PLUMBING

REV. NO.	REMARKS	DATE

KENNEDY PROJECT NO
KAI# 10-02048

ISSUE DATE
APRIL 11, 2008

SHEET NO

P3-04

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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	03-00026-00-PK 06-00026-01-MS	MADISON	53	39

FEDERAL AID PROJECT

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LEWIS AND CLARK MEMORIAL TOWER
VILLAGE OF HARTFORD, ILLINOIS
HARTFORD, ILLINOIS 62049

SHEET TITLE:
LEGEND, SCHEDULES AND DETAILS PLUMBING

DATE	
REMARKS	
REV. NO.	

KENNEDY PROJECT NO
KAI# 10-02048

ISSUE DATE
APRIL 11, 2008

SHEET NO

P4-01

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PLUMBING FIXTURE CONNECTION SCHEDULE

MARK	DESCRIPTION	WASTE	TRAP	VENT	COLD WATER	HOT WATER	REMARKS
WC-1	WATER CLOSET, WALL HUNG	4"	-	2"	1 1/2"	-	ADA, 17"A.F.F., ELEC. FLUSH VALVE
WC-2	WATER CLOSET, WALL HUNG	4"	-	2"	1 1/2"	-	15"A.F.F., ELEC. FLUSH VALVE
UR-1	URINAL, WALL HUNG	2"	-	2"	1"	-	ADA, 17"A.F.F., ELEC. FLUSH VALVE
UR-2	URINAL, WALL HUNG	2"	-	2"	1"	-	24"A.F.F., ELEC. FLUSH VALVE KOHLER#K-5016-ET/SLOAN#186-1.0ES-S
LAV-1	LAVATORY	2"	1 1/2"	1 1/2"	1/2"	1/2"	ADA, ELEC. FAUCET
DF-1	DRINKING FOUNTAIN	1 1/2"	-	1 1/4"	1/2"	-	(ADULT) ADA, 40"/36"A.F.F. RN WILLIAMS#BF-5000 FP
MB-1	MOP BASIN, FLOOR SET	3"	-	2"	3/4"	3/4"	MANUAL FAUCET STERN WILLIAMS#SB-902/T-10-VB/T-35/T-40/BP
HY-1	HYDRANT	-	-	-	3/4"	-	RECESSED, FREEZE PROOF RECESSED, FREEZE PROOF
SK-1	SINGLE BOWL SINK	2"	1 1/2"	1 1/2"	1/2"	1/2"	MAN. FAUCET ELKAY#DE-11515/S-23

NOTE: 1. SIZES LISTED ARE MINIMUM CONNECTIONS REQUIRED TO FIXTURES.

DRAIN SCHEDULE

MARK	MANUFACTURER	MODEL NO.	OUTLET SIZE	STRAINER MATERIAL	REMARKS
FD-1	J.R.SMITH	2010	3"	NICKEL BRONZE	TOILET ROOM
FD-2	J.R.SMITH	2110	4"	CAST IRON	MECHANICAL ROOM AND MECH./PUMP ROOM
FD-3	J.R.SMITH	3710SC	4"	CAST IRON	ELEVATOR SUMP IN ELECTRICAL ROOM

NOTE:

MISCELLANEOUS EQUIPMENT

MARK	MANUFACTURER	MODEL NO.	CONNECTIONS	INSTALLATION	USE/LOCATION
RBBP-1	FEBCO	860	2 1/2"	HORIZONTAL	DOMESTIC WATER/MECHANICAL ROOM
RBBP-2	FEBCO	860	1"	HORIZONTAL	FOUNTAIN/MECHANICAL ROOM
SP-1	STANCOR	SE50	2"	IN PIT	SUMP PUMP/ELEVATOR PIT

NOTE:

ELECTRIC WATER HEATER SCHEDULE

MARK	MANUFACTURER	MODEL NO.	STORAGE	RECOVERY	ELEMENT	VOLT/PH	REMARKS
WH-1	BRADFORD WHITE	LD-WH30L3-1C015	30 GAL.	6 GPH	1.5KW	120/1	JANITOR CLOSET
WH-2	BRADFORD WHITE	ES-4000-1-S-10	-	-	4.1 KW	208/3	UNDER SK-1

NOTE: RECOVERY BASED ON 90° RISE

SYMBOLS & ABBREVIATIONS

PLUMBING

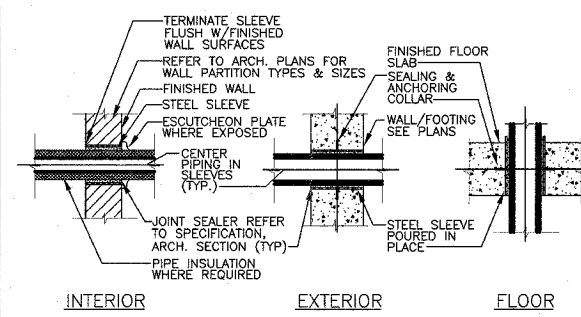
PLUMBING ABBREVIATION

AD AREA DRAIN
BT BATH TUB
CO CLEAN OUT
CW COLD WATER
DF DRINKING FOUNTAIN
EWC ELECTRIC WATER COOLER
FCO FLOOR CLEANOUT
FD FLOOR DRAIN
F.F. FINISH FLOOR
FS FLOOR SINK
HW HOT WATER
HWR HOT WATER RETURN
HWRP HOT WATER RECIRCULATING PUMP
HY HYDRANT
INV. EL. INVERT ELEVATION
LAV LAVATORY
MB MOP SERVICE BASIN
PR PLUMBING RISER
RBBP BACKFLOW PREVENTER (REDUCED PRESSURE)
SH SHOWER
SK SINK
TD TRENCH DRAIN
TYP. TYPICAL
V VENT
VTR VENT THRU ROOF
W WASTE
WH WATER HEATER
WS WATER SOFTNER
WCO WALL CLEANOUT
WC WATER CLOSET
VS VENT STACK
UR URINAL

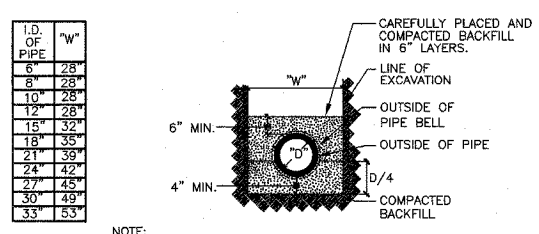
PIPING SPECIALTIES

GATE VALVE
CHECK VALVE
CIRCUIT SETTER
BALL VALVE
BALANCING COCK
UNION
STRAINER
REDUCE PRESSURE BACK FLOW PREVENTER
THERMOMETER
GAUGE
PRESSURE/TEMPERATURE TEST PLUG
FLOW MEASURING DEVICE
INDICATES PLUMBING RISER & DRAWING REFERENCE
CW COLD WATER
HW HOT WATER (105°)
HWR HOT WATER RETURN
V SANITARY VENT
ST STORM
S or W SOIL or WASTE
VTR VENT THRU ROOF AND FLASH
CO CLEANOUT
FCO FLOOR CLEANOUT
WCO WALL CLEANOUT
FD FLOOR DRAIN
FS FLOOR SINK
HB HOSE BIBB
ELBOW, TURNED UP
ELBOW, TURNED DOWN
BRANCH CONNECTION, TOP
BRANCH CONNECTION, BOTTOM
DIRECTION OF FLOW
PIPE CAP OR BLIND FLANGE
ACCESS PANEL

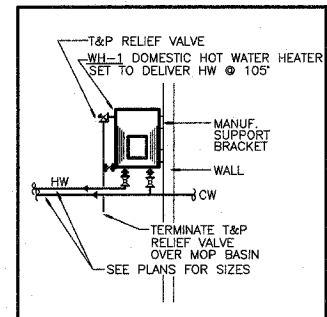
*NOT ALL OF THESE ITEMS ABOVE ARE ON THE PROJECT



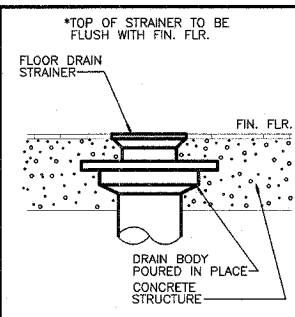
A SLEEVE DETAILS
N.T.S.



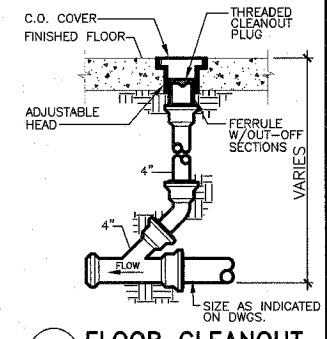
D CLASS "C" BEDDING DETAIL
N.T.S.



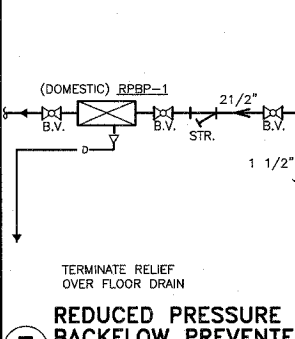
B WATER HEATER SUPPORT DETAIL
N.T.S.



DEI



E FLOOR CLEANOUT
N.T.S.



F REDUCED PRESSURE BACKFLOW PREVENTER
N.T.S.

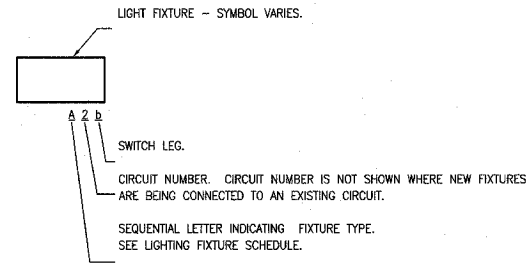
FA-RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	03-00026-00-PK 06-00026-01-MS	MADISON	53	40

FEDERAL AID PROJECT

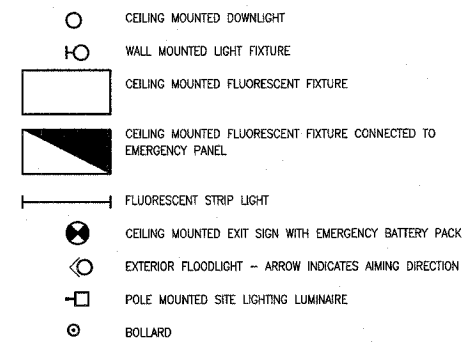
GENERAL NOTES

- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF CEILING MOUNTED ELECTRICAL EQUIPMENT (LIGHT FIXTURES, OCCUPANCY SENSORS, ETC.)
- REFER TO ARCHITECTURAL DRAWINGS FOR ELEVATION DRAWINGS INDICATING THE EXACT LOCATION OF WALL MOUNTED INTERIOR AND EXTERIOR LIGHT FIXTURES.
- IN GENERAL, CONDUIT ROUTING SHOWN ON THE DRAWINGS IS DIAGRAMMATIC. ACTUAL CONDUIT ROUTING SHALL BE DETERMINED IN THE FIELD.
- WALL MOUNTED STARTERS, DISCONNECT SWITCHES, COMBINATION STARTERS, ETC. SHALL BE INSTALLED AT 48" TO THE CENTERLINE OF THE DEVICE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- AT THE ROUGH-IN FOR ALL WALL HEIGHT PHONES, PROVIDE A BLANK COVER PLATE ON THE OUTLET BOX.
- NOT ALL SYMBOLS ARE USED IN EACH PHASE OF THIS PROJECT.

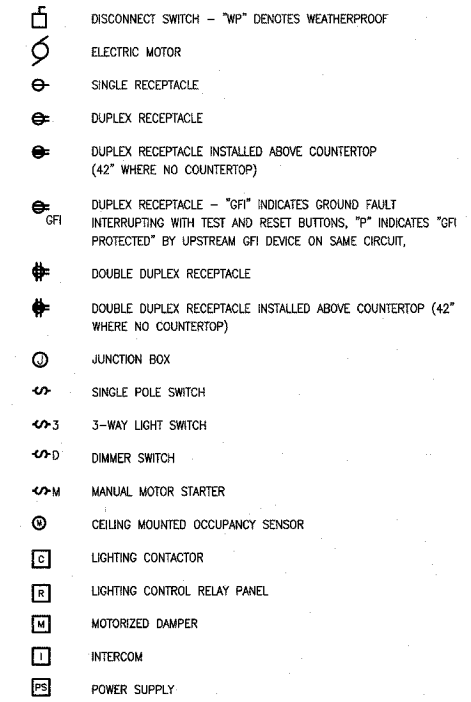
LIGHT FIXTURE DESIGNATION MATRIX



LIGHTING



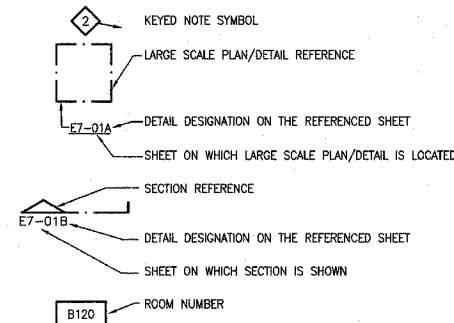
WIRING DEVICES



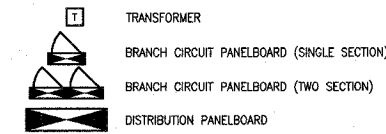
ABBREVIATIONS

A	AMPERE(S)
AIC	AMPERE INTERRUPTING CAPACITY
AC	ALTERNATING CURRENT
AF	AMP FUSE
AWG	AMERICAN WIRE GAUGE
AS	AMP SWITCH
CATV	CABLE TELEVISION
CCTV	CLOSED CIRCUIT TELEVISION
CKT	CIRCUIT
CONTR	CONTRACTOR
C/B	CIRCUIT BREAKER
COND	CONDUCTOR
CONN	CONNECTION
C	CONDUIT
CONT	CONTROL
ELEC	ELECTRICAL
EMER	EMERGENCY
EWC	ELECTRIC WATER COOLER
F	FUSED
FACP	FIRE ALARM CONTROL PANEL
FLA	FULL LOAD AMPS
FURN	FURNISHED
G	GROUND
GFI	GROUND FAULT INTERRUPTING
HD	HEAVY DUTY
HID	HIGH INTENSITY DISCHARGE
HPS	HIGH PRESSURE SODIUM
IMC	INTERMEDIATE METAL CONDUIT
INC	INCANDESCENT
INST	INSTALLED
KW	KILOWATTS
KVA	KILOVOLT AMPERES
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCM	THOUSAND CIRCULAR MILS
MLO	MAIN LUGS ONLY
MTD	MOUNTED
NEC	NATIONAL ELECTRICAL CODE
NF	NON FUSED
NL	NIGHT LIGHT
P	POLE
PF	POWER FACTOR
PH	PHASE
PNL	PANEL
PRI	PRIMARY
PVC	POLYVINYLCHLORIDE
REC	RECEPTACLE
RECEP	RECEPTACLE
SEC	SECONDARY
SURF	SURFACE
SWBD	SWITCHBOARD
SWBT	SOUTHWESTERN BELL TELEPHONE
SYM	SYMMETRICAL
TELE	TELEPHONE
TEMP	TEMPORARY
THD	TOTAL HARMONIC DISTORTION
TRANS	TRANSFORMER
TIB	TELEPHONE TERMINAL BOARD
TV	TELEVISION
UH	UNIT HEATER
V	VOLTS
VA	VOLTAMPS
VTB	VIDEO TERMINAL BOARD
W	WATTS
WP	WEATHERPROOF
XFMR	TRANSFORMER

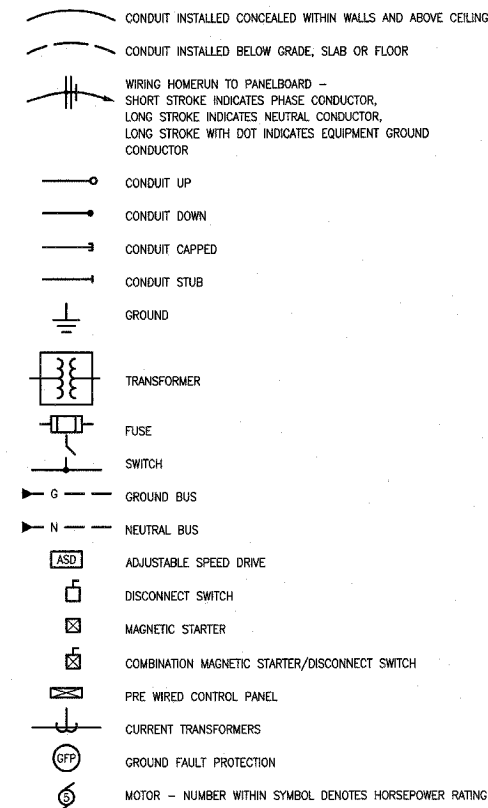
MISCELLANEOUS



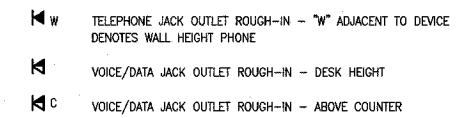
DISTRIBUTION EQUIPMENT



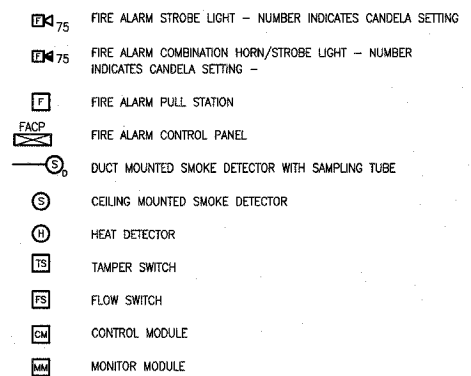
ONE LINE/WIRING/CONDUIT



VOICE/DATA



FIRE ALARM



NOTE

NOT ALL SYMBOLS AND ABBREVIATIONS ARE USED IN EACH PHASE OF THIS PROJECT.

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LEWIS AND CLARK MEMORIAL TOWER
VILLAGE OF HARTFORD, ILLINOIS
HARTFORD, ILLINOIS 62049

SHEET TITLE:
ELECTRICAL SYMBOLS AND ABBREVIATIONS

REV. NO.	REMARKS	DATE

KENNEDY PROJECT NO
KAI 10-02048

ISSUE DATE
APRIL 11, 2008

SHEET NO

E1-01

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	03-00026-00-PK 06-00026-01-MS	MADISON	53	41

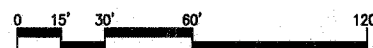
FEDERAL AID PROJECT

KEYED NOTES

- 1 CONDUIT SHALL BE EXTENDED TO PROPERTY LINE, CAPPED AND LABELED TELEPHONE, AND STAKED FOR LOCATION.
- 2 DIMENSION DENOTES HEIGHT OF CONCRETE BASE ABOVE GRADE. TYPICAL FOR ALL POLES. SEE DETAILS ON SHEET E6-02 FOR ADDITIONAL INFORMATION.
- 3 E.C. SHALL FURNISH AND INSTALL TRANSFORMER PAD. SEE DETAIL B, SHEET E6-02.
- 4 EXTEND AND CONNECT TO PANEL VIA CONTACTOR C1. SEE SHEET E4-01 FOR CONTACTOR LOCATION.
- 5 (2) 5" UNDERGROUND PVC CONDUITS FOR PRIMARY SERVICE ENTRANCE. EXTEND TO PROPERTY LINE AND CAP OFF BELOW GRADE. PROVIDE IN ACCORDANCE WITH AMEREN UE REQUIREMENTS.
- 6 EXTEND AND CONNECT TO PANEL VIA CONTACTOR. SEE SHEET E4-01 FOR LOCATION OF CONTACTOR C2.
- 7 DIMENSION DENOTES HEIGHT OF CONCRETE BASE ABOVE GRADE. TYPICAL FOR ALL POLES. SEE DETAIL A ON SHEET E6-02 AND DETAIL E ON SHEET E6-01 FOR ADDITIONAL INFORMATION.



A ELECTRICAL SITE PLAN
1"=30'



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VILLAGE OF HARTFORD, ILLINOIS
HARTFORD, ILLINOIS 62049

SHEET TITLE
ELECTRICAL SITE PLAN

REV. NO.	REMARKS	DATE

KENNEDY PROJECT NO
KAI# 10-02048

ISSUE DATE
APRIL 11, 2008

SHEET NO

E2-01

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	03-00026-00-PK	MADISON	53	42
	06-00026-01-MS			

FEDERAL AID PROJECT

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LEWIS AND CLARK MEMORIAL TOWER
VILLAGE OF HARTFORD, ILLINOIS
HARTFORD, ILLINOIS 62049

SHEET TITLE:
PLAZA LIGHTING PLAN

DATE	REMARKS	REV. NO.

PROJECT NO
KAI# 10-02048

ISS
APRIL 11, 2008

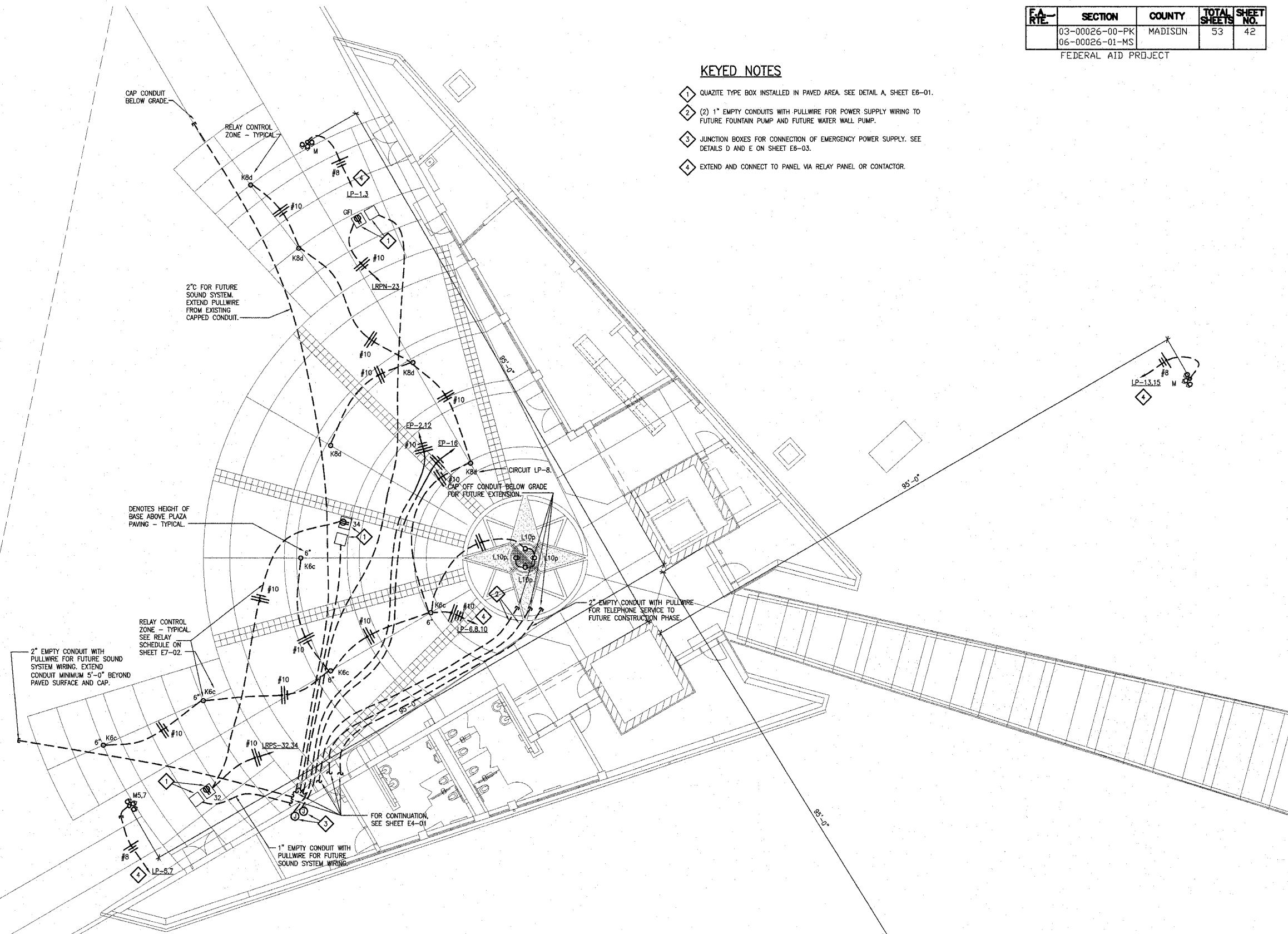
SHEET NO

E2-02

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KEYED NOTES

- 1 QUAZITE TYPE BOX INSTALLED IN PAVED AREA. SEE DETAIL A, SHEET E6-01.
- 2 (2) 1" EMPTY CONDUITS WITH PULLWIRE FOR POWER SUPPLY WIRING TO FUTURE FOUNTAIN PUMP AND FUTURE WATER WALL PUMP.
- 3 JUNCTION BOXES FOR CONNECTION OF EMERGENCY POWER SUPPLY. SEE DETAILS D AND E ON SHEET E6-03.
- 4 EXTEND AND CONNECT TO PANEL VIA RELAY PANEL OR CONTACTOR.



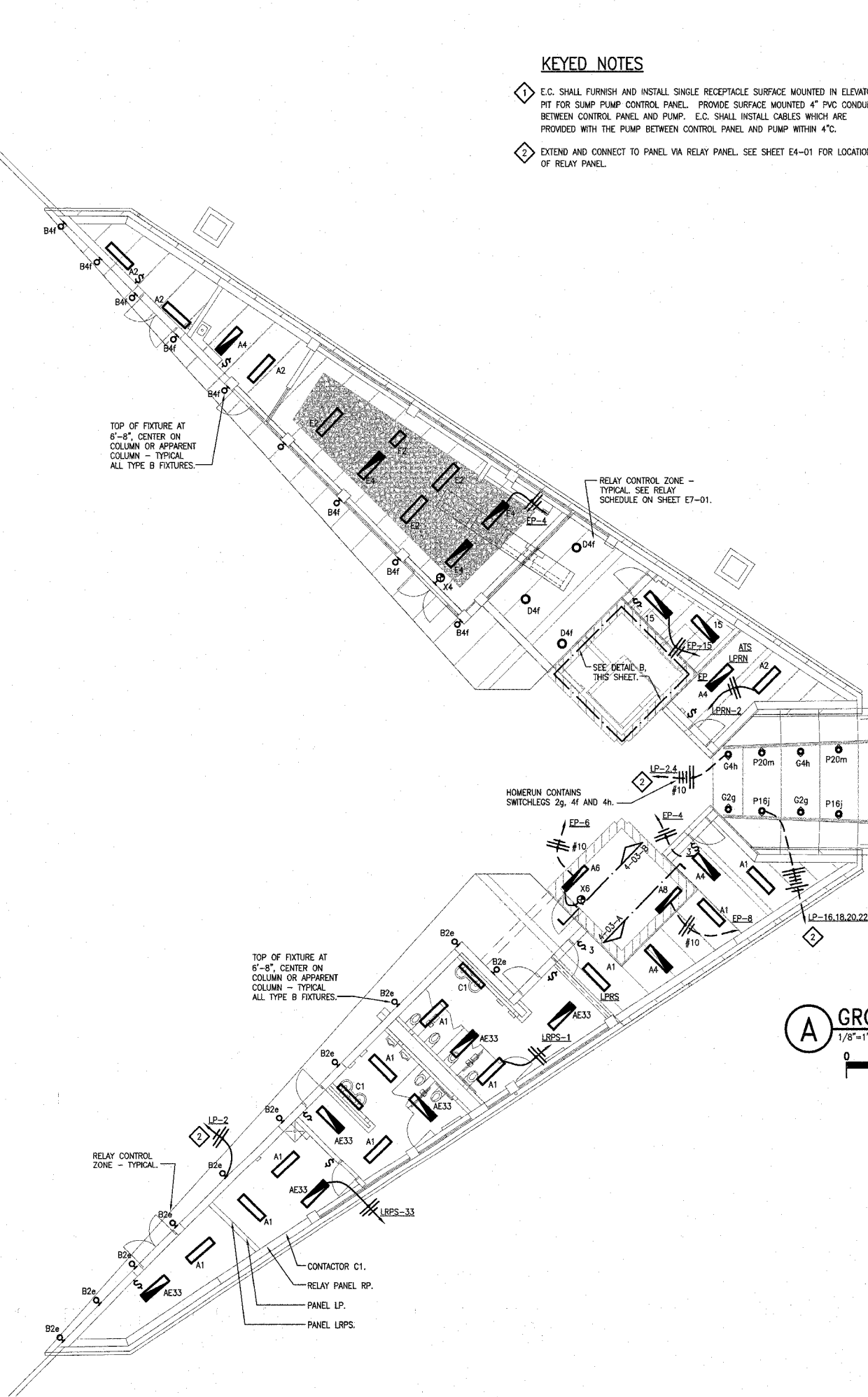
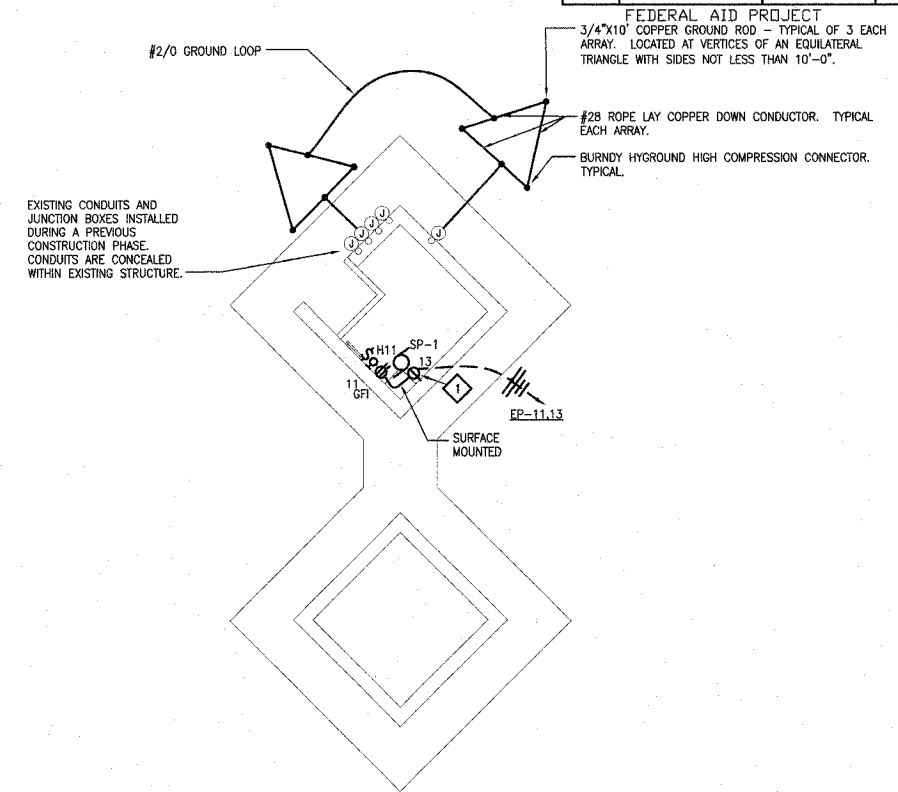
A PLAZA LIGHTING AND POWER PLAN
1/8"=1'-0"
0 4' 8' 16' 32'



F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	03-00026-00-PK 06-00026-01-MS	MADISON	53	43

KEYED NOTES

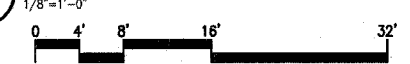
- 1 E.C. SHALL FURNISH AND INSTALL SINGLE RECEPTACLE SURFACE MOUNTED IN ELEVATOR PIT FOR SUMP PUMP CONTROL PANEL. PROVIDE SURFACE MOUNTED 4" PVC CONDUIT BETWEEN CONTROL PANEL AND PUMP. E.C. SHALL INSTALL CABLES WHICH ARE PROVIDED WITH THE PUMP BETWEEN CONTROL PANEL AND PUMP WITHIN 4".
- 2 EXTEND AND CONNECT TO PANEL VIA RELAY PANEL. SEE SHEET E4-01 FOR LOCATION OF RELAY PANEL.



B ELEVATOR PIT LIGHTING & POWER PLAN
1/8"=1'-0"



A GROUND FLOOR LIGHTING PLAN
1/8"=1'-0"



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HARTFORD, ILLINOIS 62049

SHEET TITLE:
GROUND FLOOR LIGHTING PLAN

REV. NO.	DATE	REMARKS

KENNEDY PROJECT NO
KAI# 10-02048

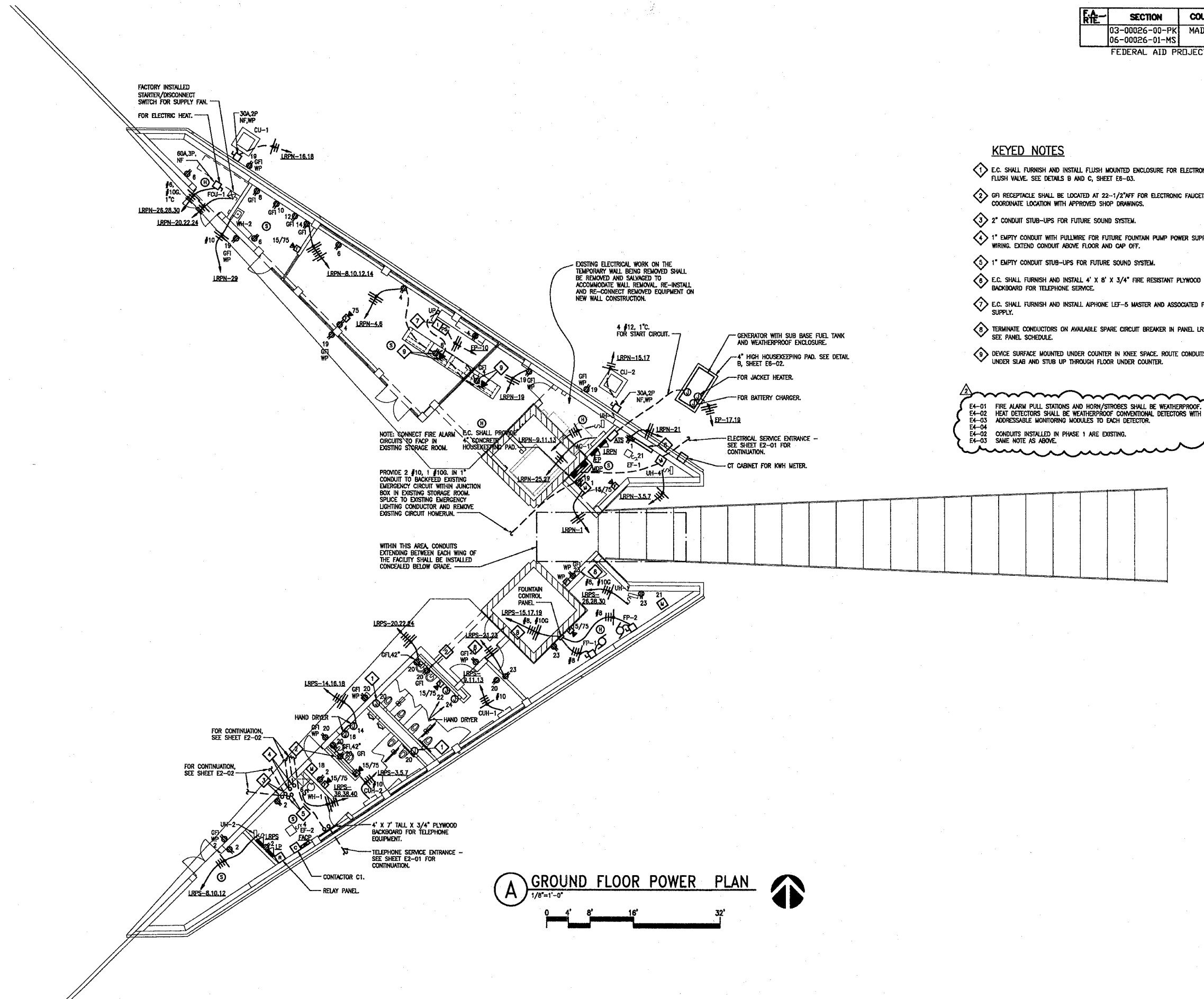
ISSUE DATE
APRIL 11, 2008

SHEET NO

E3-01

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	03-00026-00-PK	MADISON	53	44
	06-00026-01-MS			

FEDERAL AID PROJECT



KEYED NOTES

- 1 E.C. SHALL FURNISH AND INSTALL FLUSH MOUNTED ENCLOSURE FOR ELECTRONIC FLUSH VALVE. SEE DETAILS B AND C, SHEET E6-03.
- 2 GFI RECEPTACLE SHALL BE LOCATED AT 22-1/2" AFF FOR ELECTRONIC FAUCETS. COORDINATE LOCATION WITH APPROVED SHOP DRAWINGS.
- 3 2" CONDUIT STUB-UPS FOR FUTURE SOUND SYSTEM.
- 4 1" EMPTY CONDUIT WITH PULLWIRE FOR FUTURE FOUNTAIN PUMP POWER SUPPLY WIRING. EXTEND CONDUIT ABOVE FLOOR AND CAP OFF.
- 5 1" EMPTY CONDUIT STUB-UPS FOR FUTURE SOUND SYSTEM.
- 6 E.C. SHALL FURNISH AND INSTALL 4' X 8' X 3/4" FIRE RESISTANT PLYWOOD BACKBOARD FOR TELEPHONE SERVICE.
- 7 E.C. SHALL FURNISH AND INSTALL ALPHAONE LEF-5 MASTER AND ASSOCIATED POWER SUPPLY.
- 8 TERMINATE CONDUCTORS ON AVAILABLE SPARE CIRCUIT BREAKER IN PANEL LRPS. SEE PANEL SCHEDULE.
- 9 DEVICE SURFACE MOUNTED UNDER COUNTER IN KNEE SPACE. ROUTE CONDUITS UNDER SLAB AND STUB UP THROUGH FLOOR UNDER COUNTER.

E4-01 FIRE ALARM PULL STATIONS AND HORN/STROBES SHALL BE WEATHERPROOF.
 E4-02 HEAT DETECTORS SHALL BE WEATHERPROOF CONVENTIONAL DETECTORS WITH ADDRESSABLE MONITORING MODULES TO EACH DETECTOR.
 E4-04 ADDRESSABLE MONITORING MODULES TO EACH DETECTOR.
 E4-02 CONDUITS INSTALLED IN PHASE 1 ARE EXISTING.
 E4-03 SAME NOTE AS ABOVE.

A GROUND FLOOR POWER PLAN
 1/8" = 1'-0"

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 HARTFORD, ILLINOIS 62049

SHEET TITLE
GROUND FLOOR POWER PLAN

REV. NO.	DATE	REMARKS

KENNEDY PROJECT NO
 KAI# 10-02048

ISSUE DATE
 APRIL 11, 2008

SHEET NO
E4-01

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	03-00026-00-PK 06-00026-01-MS	MADISON	53	45

FEDERAL AID PROJECT

KEYED NOTES

- 1 E.C. SHALL FURNISH AND INSTALL ALPHONE LE-DA OUTDOOR WEATHERPROOF INTERCOM STATION WITHIN EXISTING ROUGH-IN INSTALLED DURING PHASE 1 CONSTRUCTION. PROVIDE A 4 CONDUCTOR 18 AWG STP CABLE WIRING HOMERUN FROM EACH STATION TO THE MASTER STATION IN THE GIFT SHOP. SEE SHEET E4-01 FOR LOCATION OF MASTER STATION.

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HARTFORD, ILLINOIS 62049

SHEET TITLE:
LANDING ELECTRICAL PLANS

REV. NO.	REMARKS	DATE

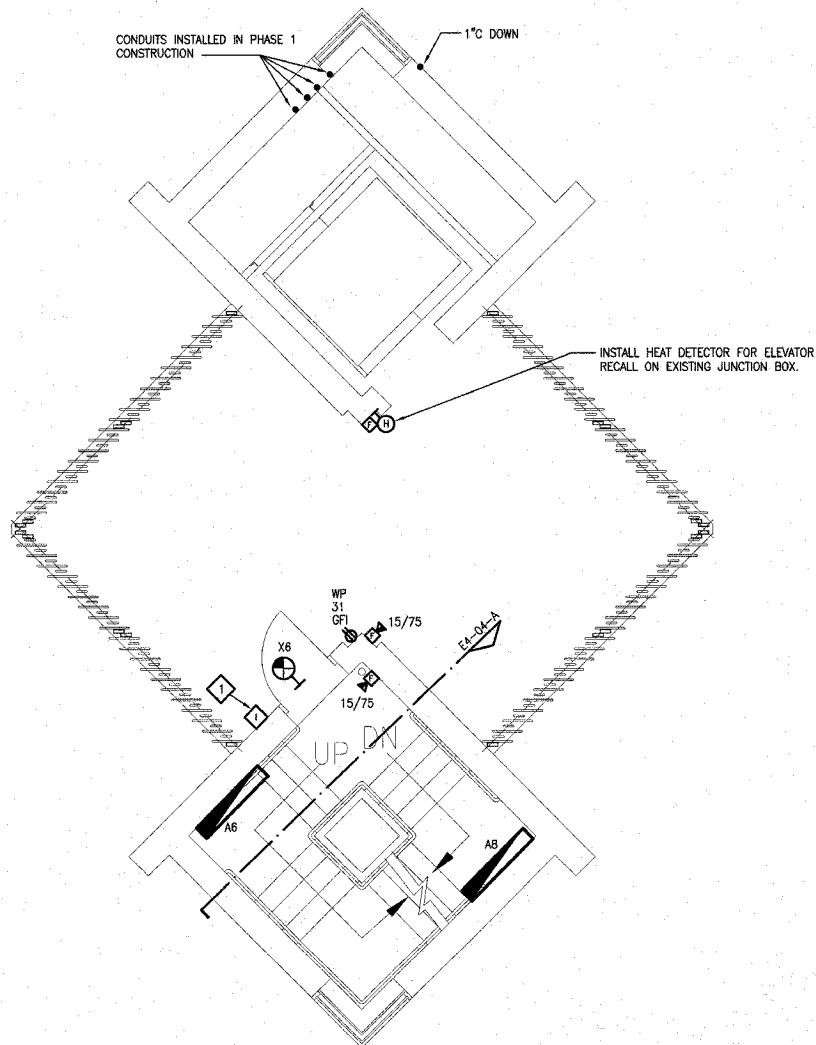
KENNEDY PROJECT NO
KAI# 10-02048

ISSUE DATE
APRIL 11, 2008

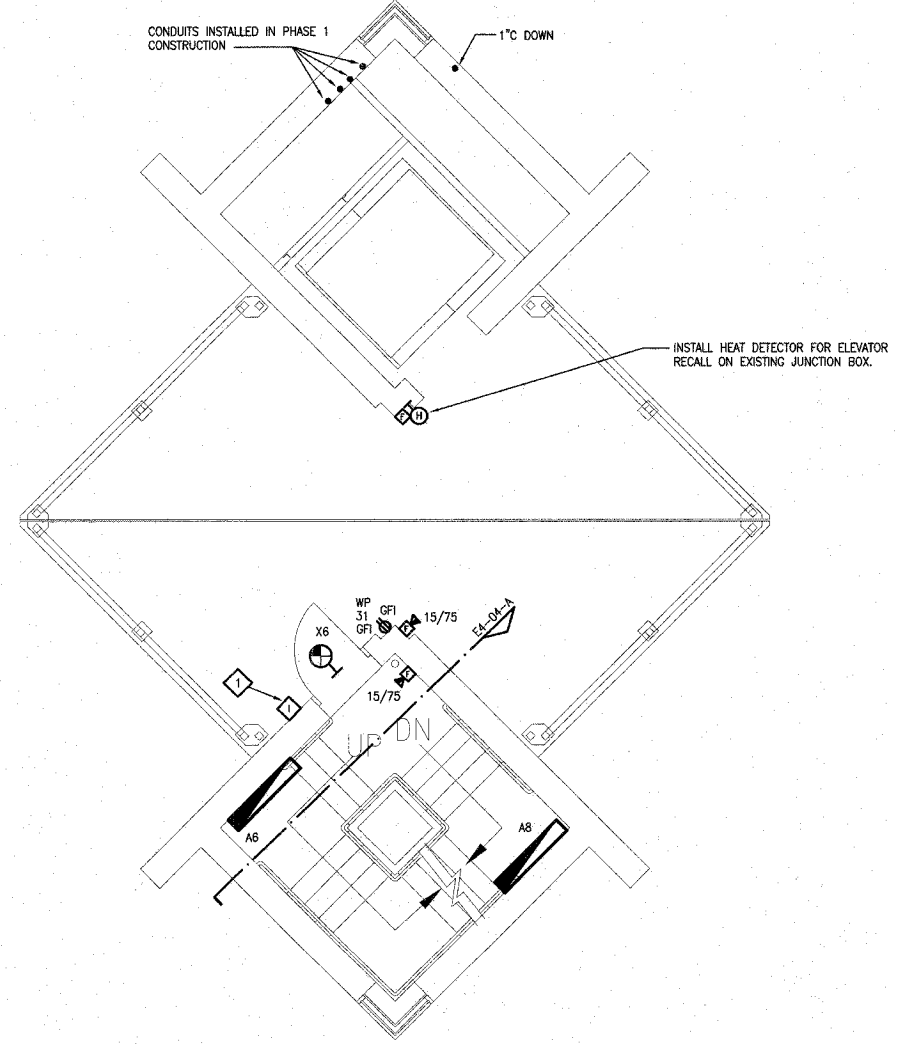
SHEET NO

E4-02

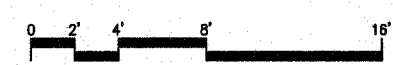
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A **FIRST LANDING ELECTRICAL PLAN**
1/4"=1'-0"



B **SECOND LANDING ELECTRICAL PLAN**
1/4"=1'-0"



F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	03-00026-00-PK 06-00026-01-MS	MADISON	53	46

FEDERAL AID PROJECT

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LEWIS AND CLARK MEMORIAL TOWER
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SHEET TITLE:
LANDING ELECTRICAL PLANS

REV. NO.	REMARKS	DATE

KENNEDY PROJECT NO
KAI 10-02048

ISSUE DATE
APRIL 11, 2008

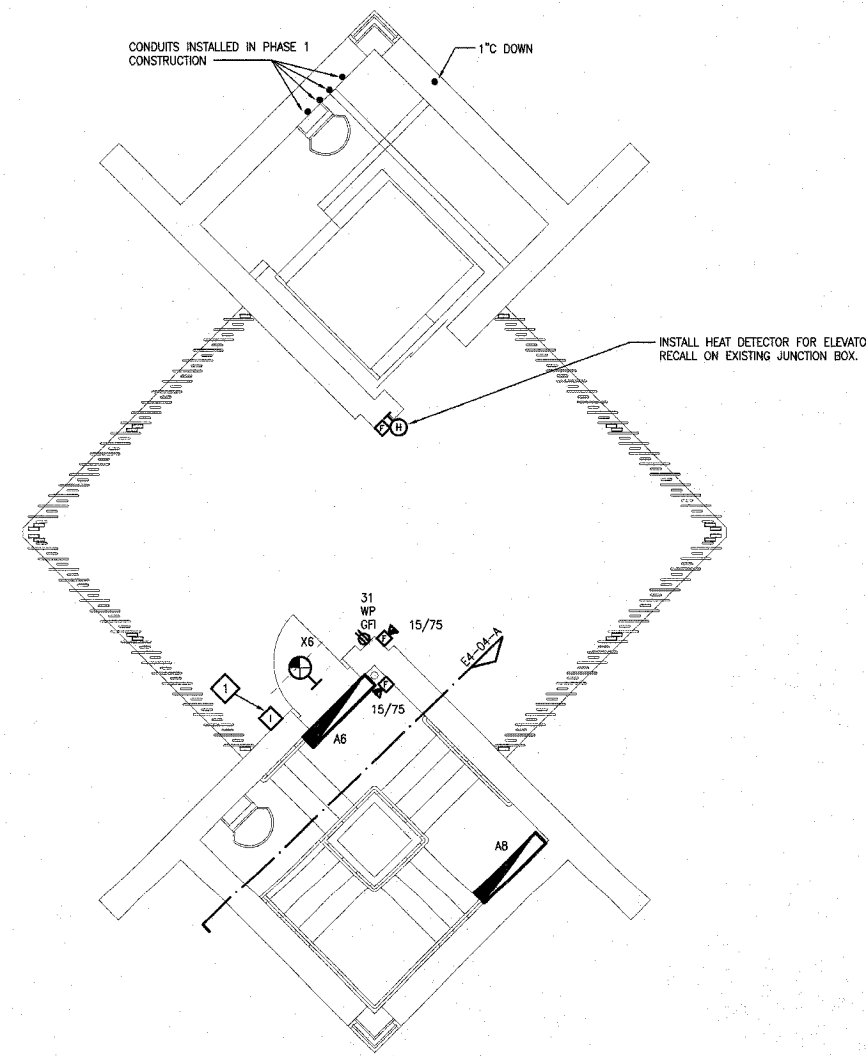
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E4-03

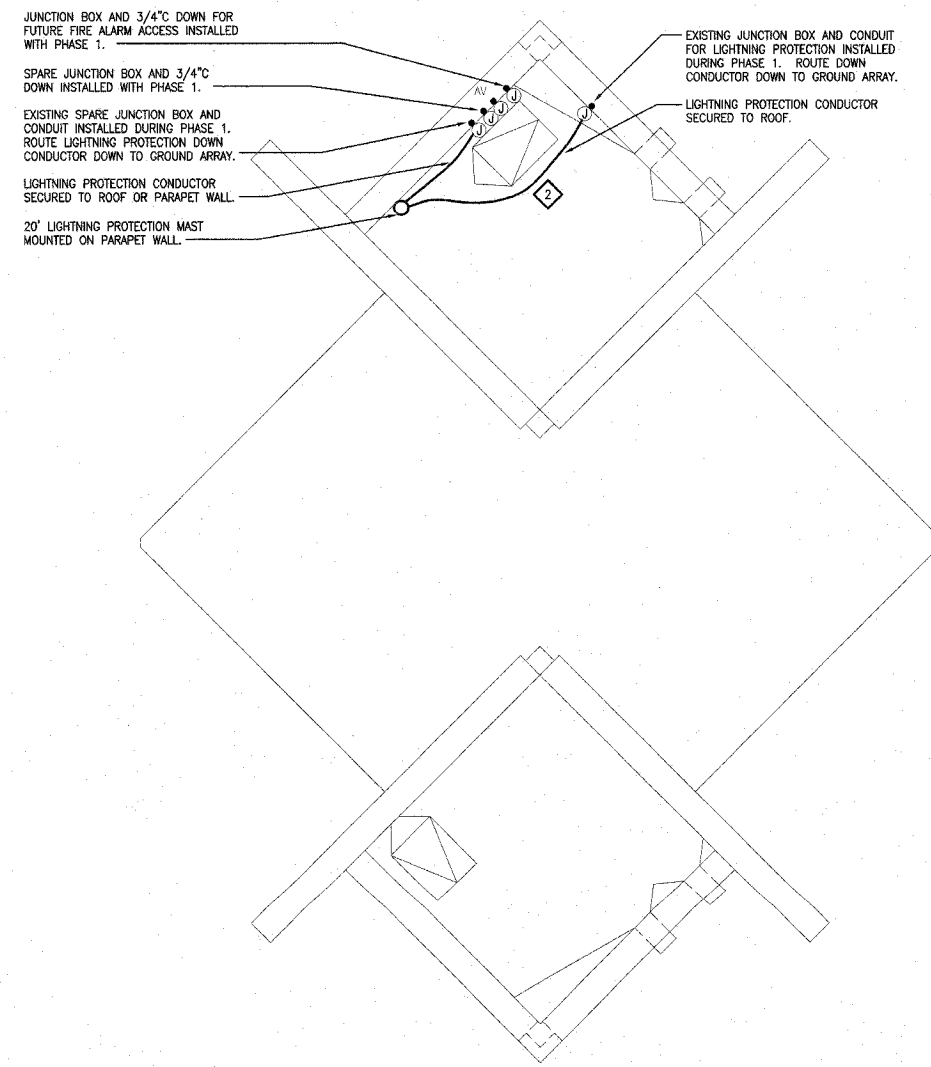
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KEYED NOTES

- 1 E.C. SHALL FURNISH AND INSTALL APHONE LE-DA OUTDOOR WEATHERPROOF INTERCOM STATION WITHIN EXISTING ROUGH-IN INSTALLED DURING PHASE 1 CONSTRUCTION.
- 2 SEE DETAILS F AND G ON SHEET E6-01.



D THIRD LANDING ELECTRICAL PLAN
1/4"=1'-0"

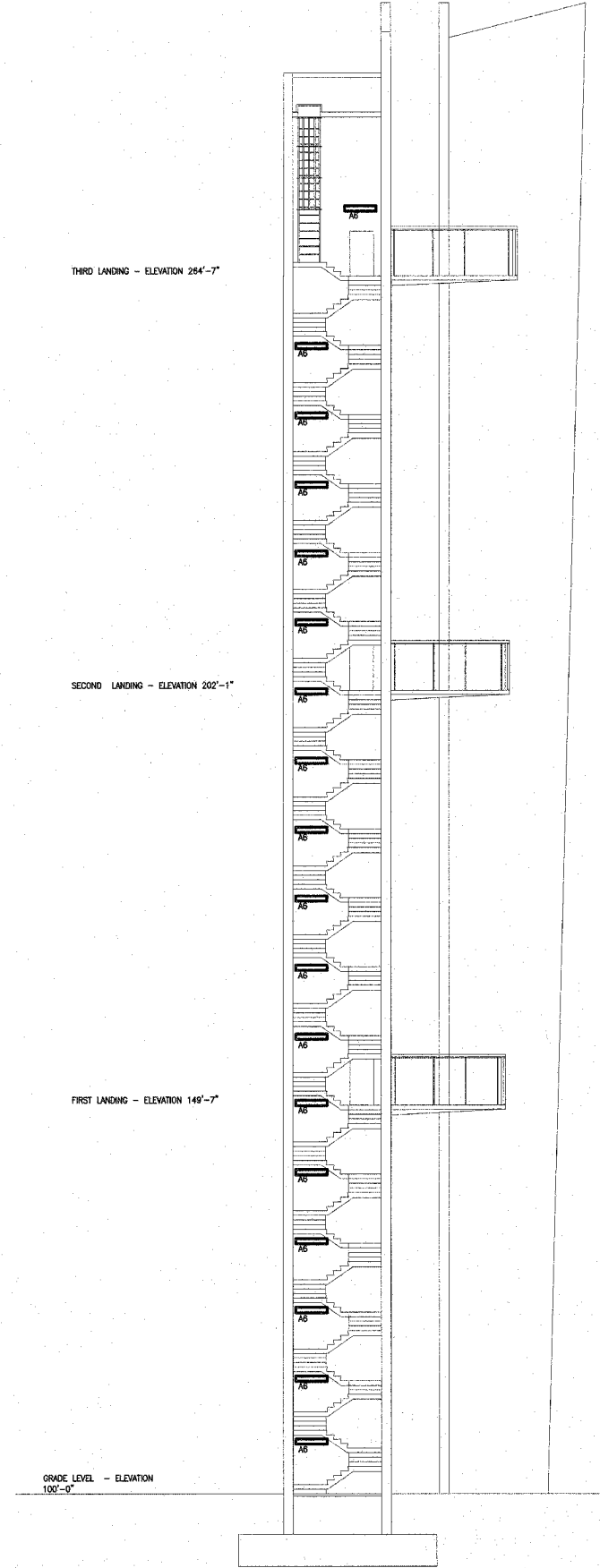
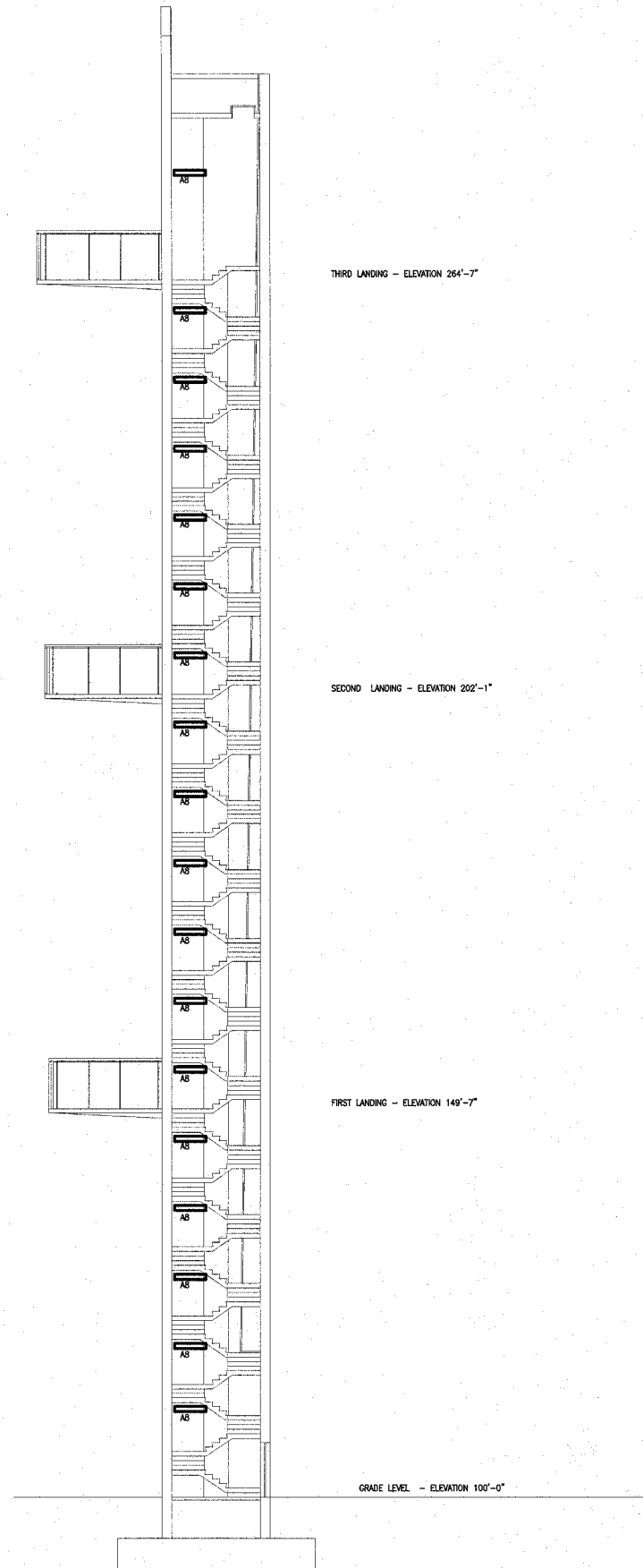


C ROOF LANDING ELECTRICAL PLAN
1/4"=1'-0"



F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	03-00026-00-PK 06-00026-01-MS	MADISON	53	47

FEDERAL AID PROJECT



NOTE:

THIS SHEET IS NOT DRAWN TO SCALE, IT IS INTENDED TO SHOW QUANTITIES AND LOCATIONS ONLY.

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HARTFORD, ILLINOIS 62049

SHEET TITLE:
ELECTRICAL SECTIONS

REV. NO.	REMARKS	DATE

KENNEDY PROJECT NO
KAI# 10-02048

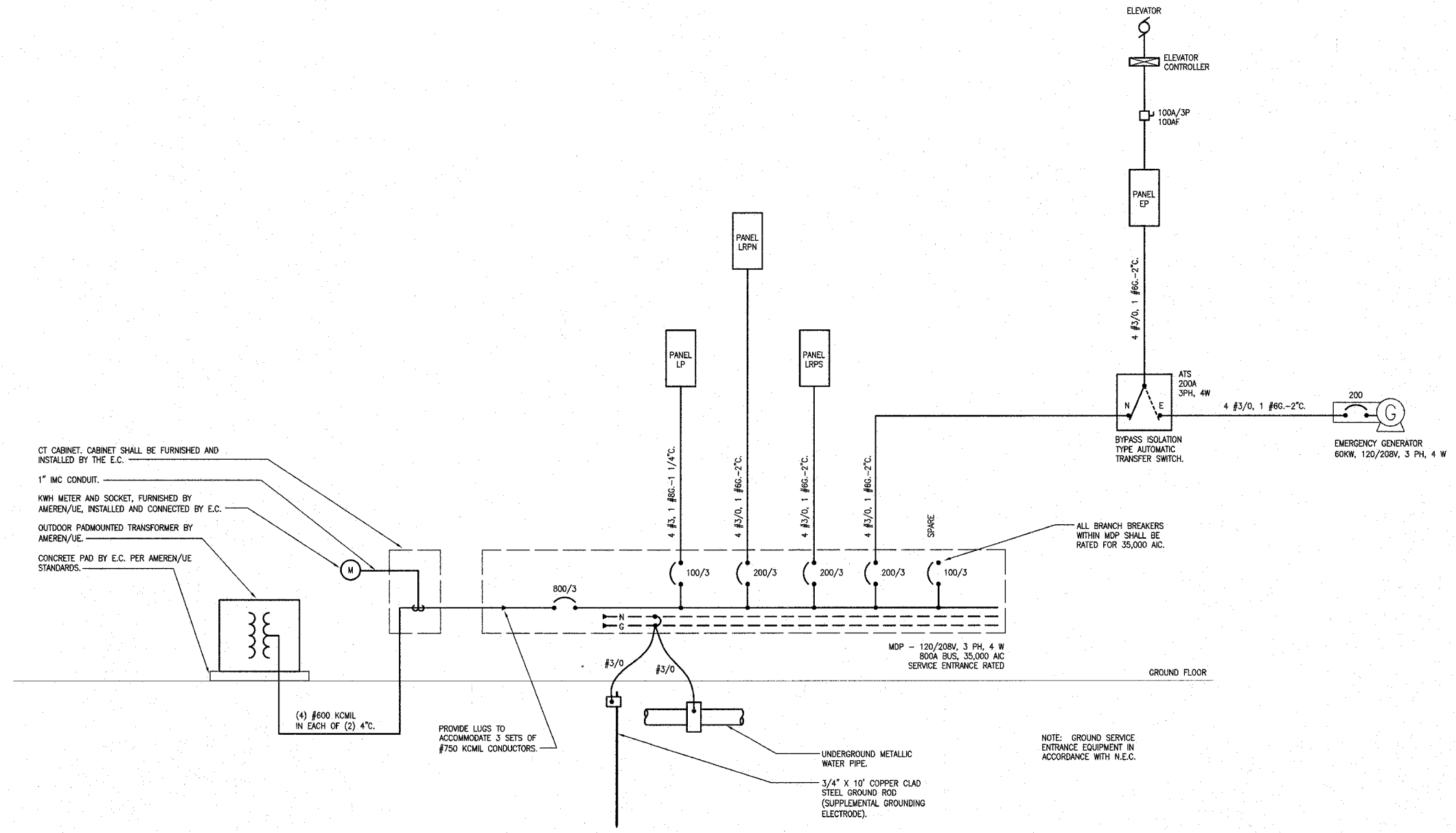
ISSUE DATE
APRIL 11, 2008

SHEET NO

E4-04

F.A. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	03-00026-00-PK 06-00026-01-MS	MADISON	53	48

FEDERAL AID PROJECT



CT CABINET, CABINET SHALL BE FURNISHED AND INSTALLED BY THE E.C.
 1" IMC CONDUIT.
 KWH METER AND SOCKET, FURNISHED BY AMEREN/UE, INSTALLED AND CONNECTED BY E.C.
 OUTDOOR PADMOUNTED TRANSFORMER BY AMEREN/UE.
 CONCRETE PAD BY E.C. PER AMEREN/UE STANDARDS.

(4) #600 KCMIL IN EACH OF (2) 4" C.

PROVIDE LUGS TO ACCOMMODATE 3 SETS OF #750 KCMIL CONDUCTORS.

MDP - 120/208V, 3 PH, 4 W
 800A BUS, 35,000 AC
 SERVICE ENTRANCE RATED

ALL BRANCH BREAKERS WITHIN MDP SHALL BE RATED FOR 35,000 AC.

NOTE: GROUND SERVICE ENTRANCE EQUIPMENT IN ACCORDANCE WITH N.E.C.

A ONE LINE DIAGRAM
 NO SCALE

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LEWIS AND CLARK MEMORIAL TOWER
VILLAGE OF HARTFORD, ILLINOIS
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SHEET TITLE:
ONE LINE DIAGRAM

REV. NO.	REMARKS	DATE

KENNEDY PROJECT NO
 KAI# 10-02048

ISSUE DATE
 APRIL 11, 2008

SHEET NO

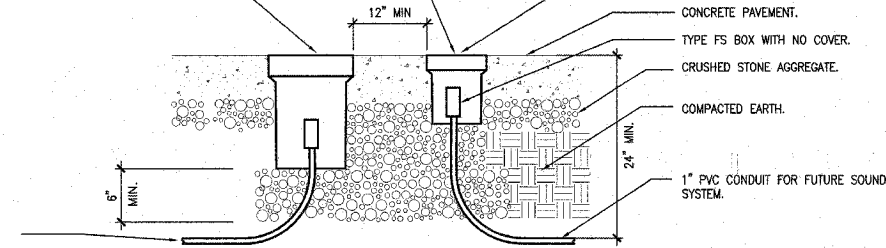
E5-01

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	03-00026-00-PK	MADISON	53	49
	06-00026-01-MS			

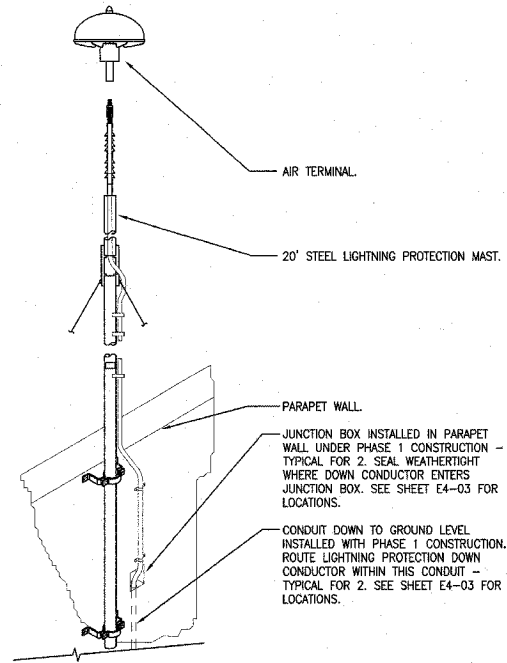
FEDERAL AID PROJECT

QUAZITE PC0608BA06 OPEN BOTTOM BOX WITH #PC0608CG00 GASKETED COVER WITH (4) BOLTS. COVER LOGO TO READ "SOUND".

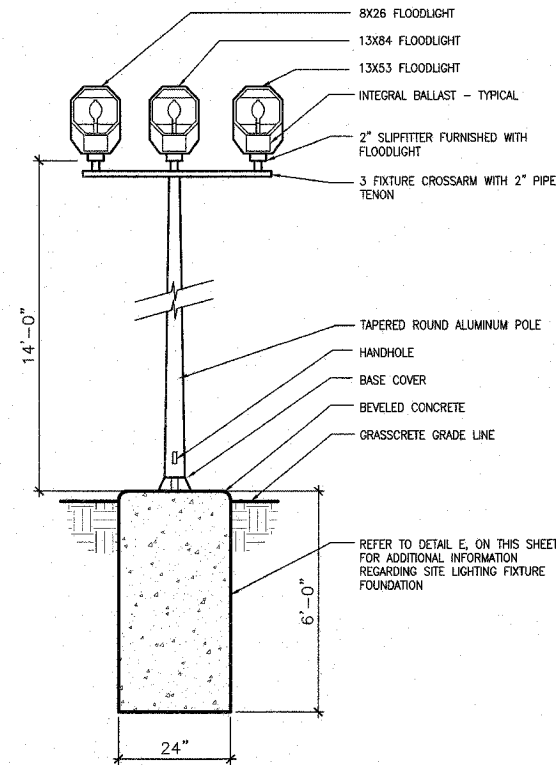
INSTALL TOP OF BOX FLUSH WITH PLAZA PAVEM



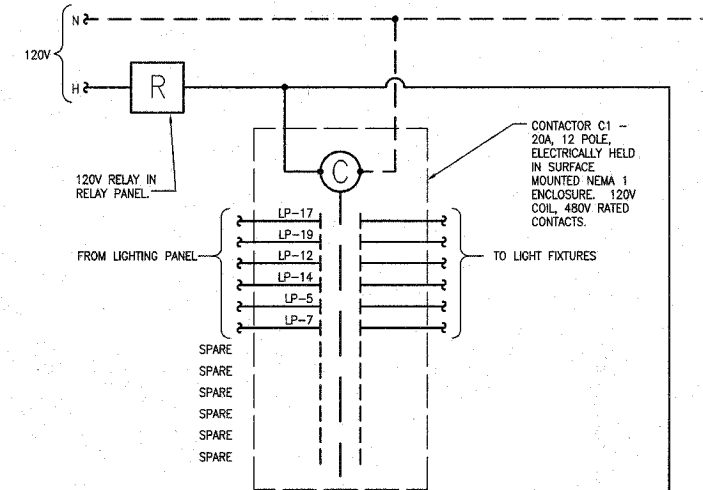
A BOXES AT PLAZA
NO SCALE



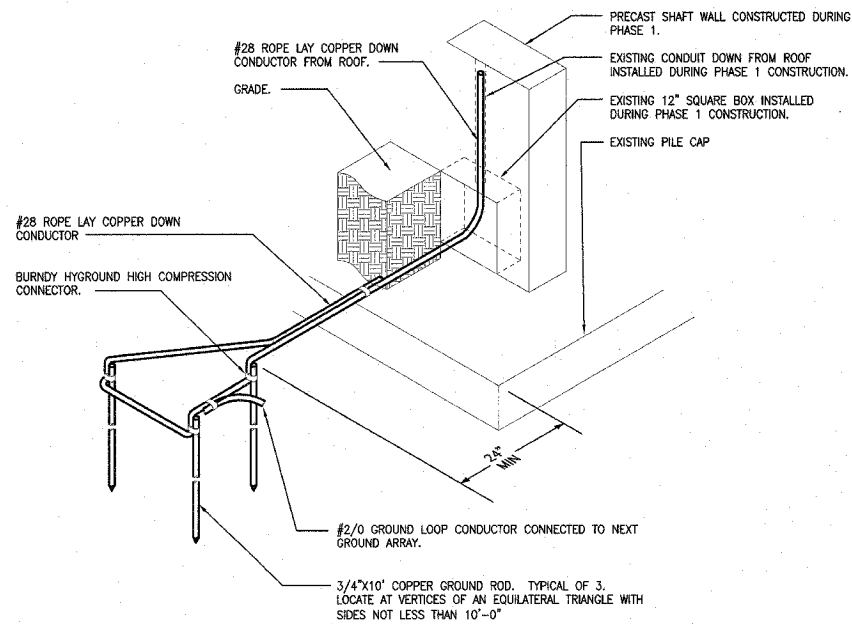
F LIGHTNING PROTECTION MOUNTING
NO SCALE



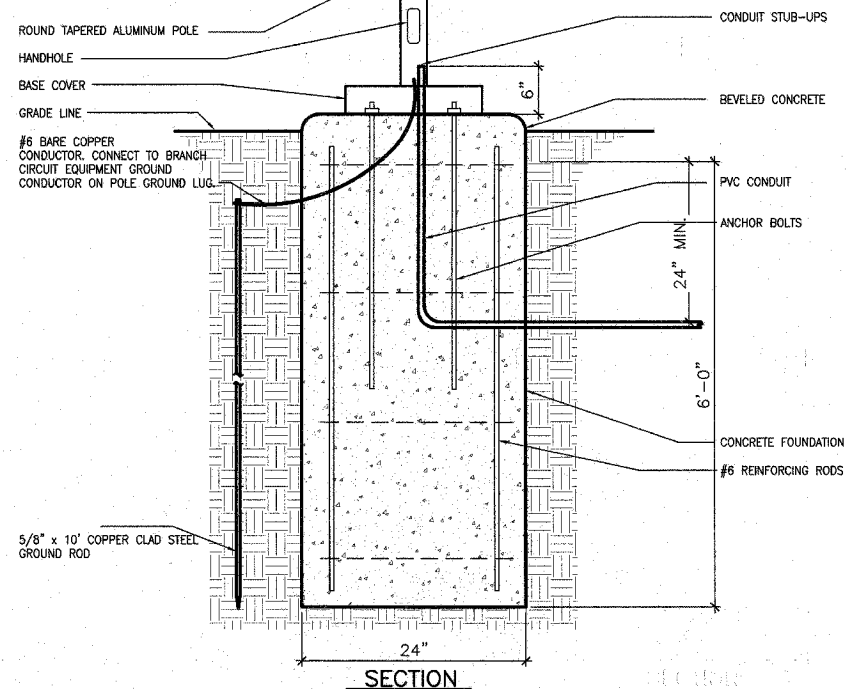
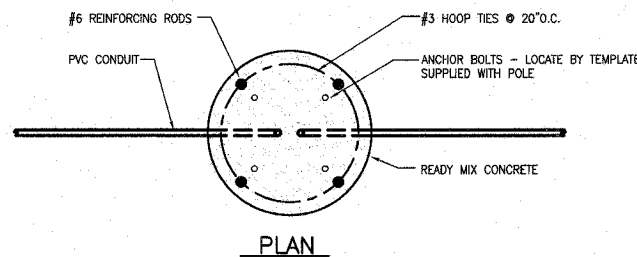
D FLOODLIGHTING FIXTURE "TYPE M"
NO SCALE



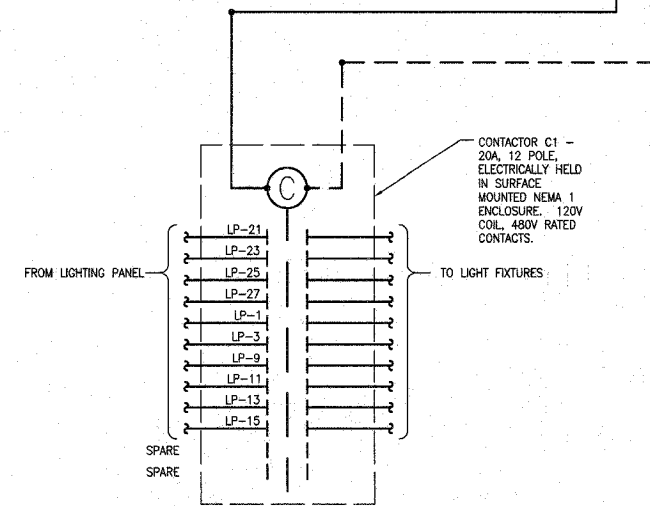
B CONTACTOR C1 DETAIL
NO SCALE



G LIGHTNING PROTECTION GROUND ARRAY
NO SCALE



E SITE LIGHTING FIXTURE FOUNDATION DETAIL
NO SCALE



C CONTACTOR C2 DETAIL
NO SCALE

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KAI

LEWIS AND CLARK MEMORIAL TOWER
VILLAGE OF HARTFORD, ILLINOIS
HARTFORD, ILLINOIS 62049

SHEET TITLE:
ELECTRICAL DETAILS

DATE	REMARKS	REV. NO.

KENNEDY PROJECT NO
KAI# 10-02048

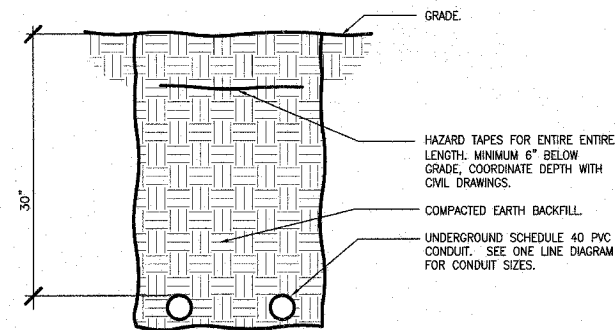
ISSUE DATE
APRIL 11, 2008

SHEET NO

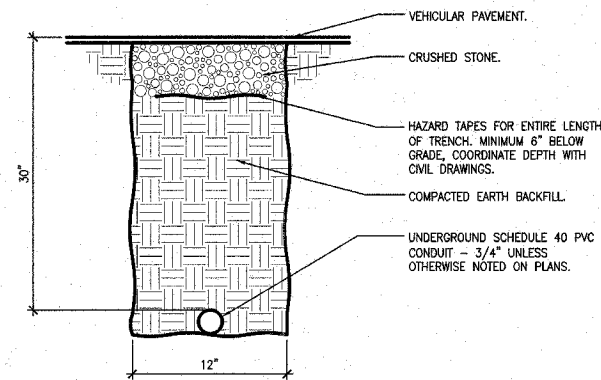
E6-01

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	03-00026-00-PK	MADISON	53	50
	06-00026-01-MS			

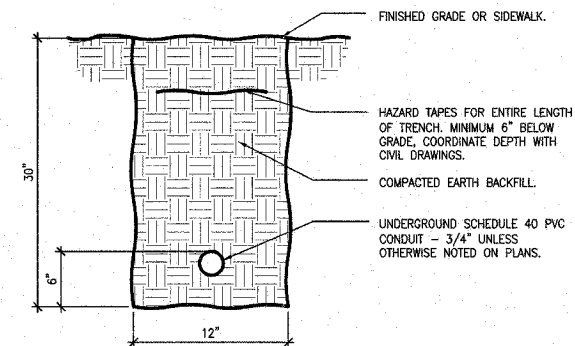
FEDERAL AID PROJECT



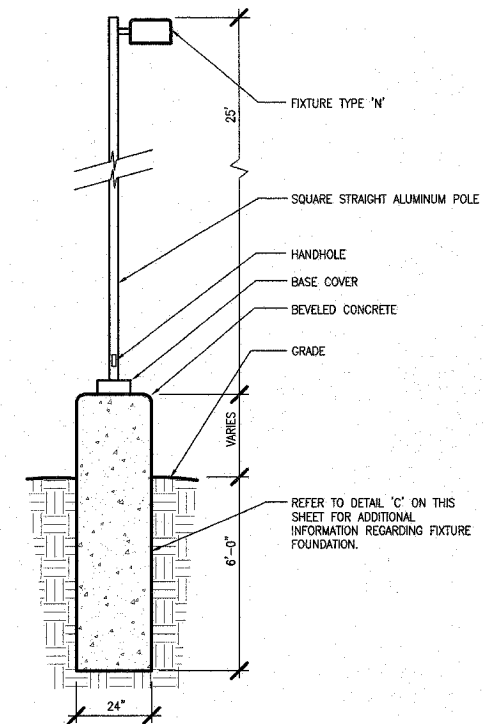
D SECONDARY SERVICE ENTRANCE DUCTBANK
NO SCALE



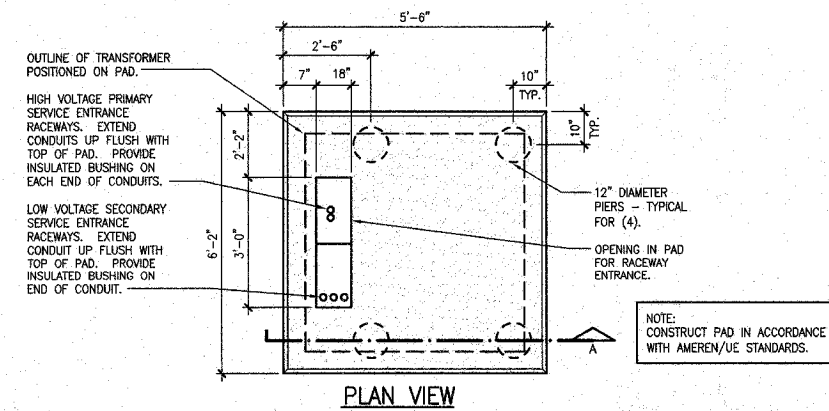
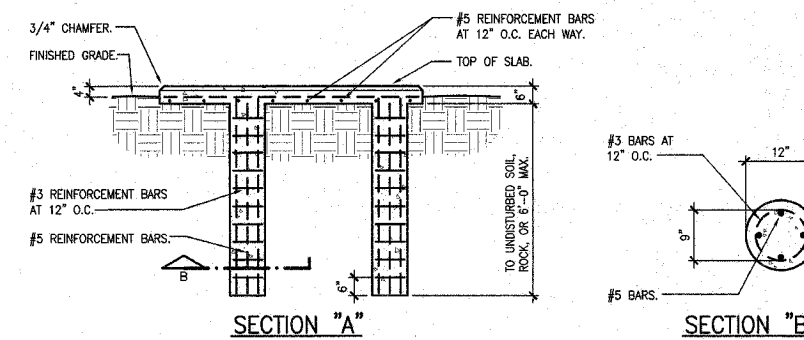
E CONDUIT TRENCH UNDER VEHICULAR PAVEMENT
NO SCALE



F CONDUIT TRENCH IN GRASS OR UNDER SIDEWALK
NO SCALE



A SITE LIGHTING FIXTURE DETAIL "TYPE N"
NO SCALE



B TRANSFORMER PAD DETAIL
NO SCALE

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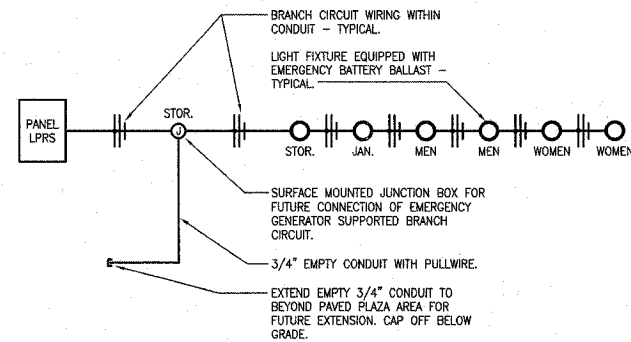
ISSUE DATE
APRIL 11, 2008

SHEET NO

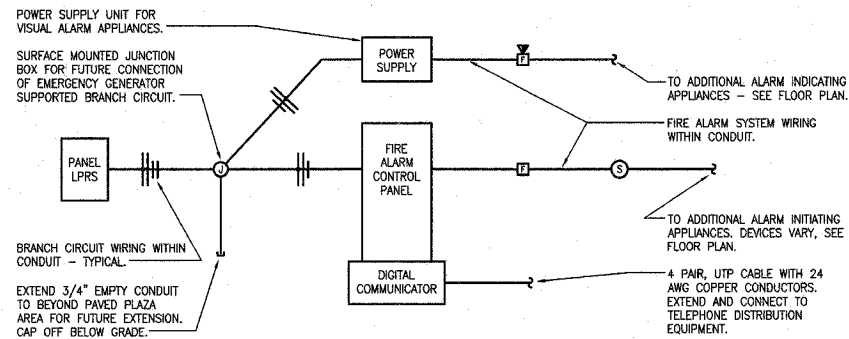
E6-02

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	03-00026-00-PK 06-00026-01-MS	MADISON	53	51

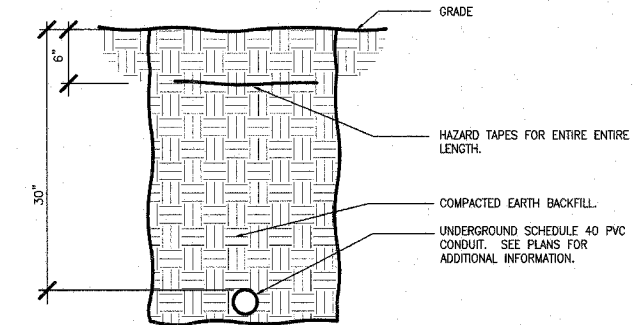
FEDERAL AID PROJECT



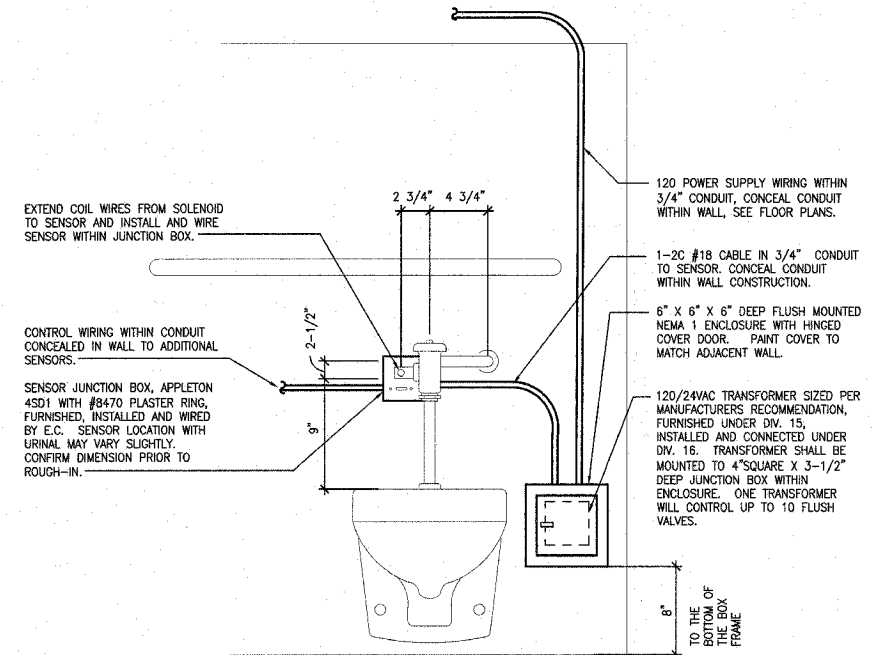
D LIFE SAFETY LIGHTING
NO SCALE



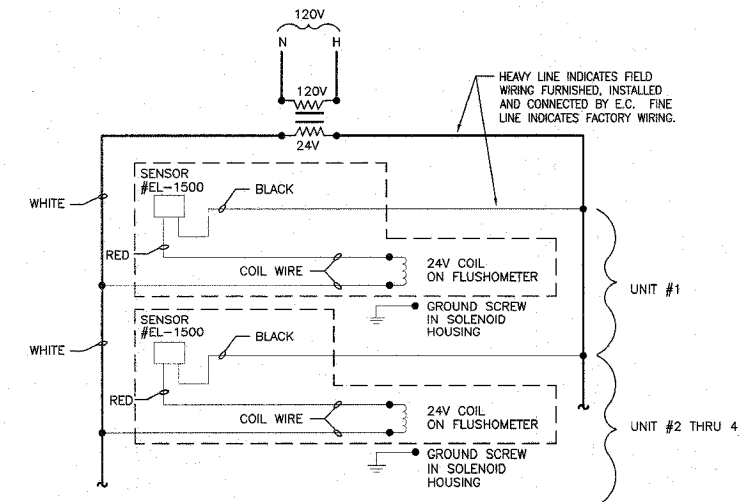
E FIRE ALARM SYSTEM SCHEMATIC
NO SCALE



A TELEPHONE SERVICE ENTRANCE
NO SCALE



B FLUSH VALVE DETAIL FOR WATER CLOSETS AND URINALS
NO SCALE



C FLUSH VALVE WIRING DIAGRAM
NO SCALE

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KENNEDY PROJECT NO
KAI# 10-02048

ISSUE DATE
APRIL 11, 2008

SHEET NO

E6-03

RELAY PANEL "RP"

RELAY NUMBER	PANEL AND CIRCUIT NUMBER	RELAY CONTROL ZONE	CONTROL ZONE LOCATION	PRIMARY CONTROL SOURCE	SECONDARY CONTROL SOURCES	NOTES
1	LP-41	a	Coil in Contactor C1	PC	none	1
2	LP-41	b	Coil in Contactor C2	PC	TC	2
3	LP-6	c	South Plaza Ltg.	PC	none	3
4	LP-8	d	North Plaza Ltg.	PC	none	3
5	LP-2	e	Exterior Bldg. Ltg.	PC	none	3
6	LP-4	f	Water Wall Lighting	PC	TC	2
7	LP-2	g	Water Wall Lighting	PC	TC	2
8	LP-4	h	Water Wall Lighting	PC	TC	2
9	LP-16	j	Water Wall Lighting	PC	TC	2
10	LP-16	k	Water Wall Lighting	PC	TC	2
11	LP-20	m	Water Wall Lighting	PC	TC	2
12	LP-22	n	Water Wall Lighting	PC	TC	2
13	LP-10	p	Fountain Lighting	PC	TC	2
14	spare relay	q				
15	spare relay	r				
16	spare relay	s				
17	spare relay	t				
18	spare relay	u				
19	spare relay	v				
20	spare relay	w				
21	spare relay	x				
22	spare relay	y				
23	spare relay	z				
24	spare relay	aa				
25	space for spare relay	bb				
26	space for spare relay	cc				
27	space for spare relay	dd				
28	space for spare relay	ee				
29	space for spare relay	ff				
30	space for spare relay	gg				
31	space for spare relay	hh				
32	space for spare relay	ii				

CONTROL SOURCE LEGEND

PC = PHOTOCELL
TC = TIME CLOCK (within relay panel controller)

NOTES

Note 1 - Photocell controls coil of contactor (via relay) to turn lights "ON" and "OFF" (dusk to dawn operation).

Note 2 - Photocell controls coil of contactor (via relay) to turn lights "ON", time clock controls coil of contactor (via relay) to turn lights "OFF".

Note 3 - Photocell controls relay to turn lights "ON" and "OFF" (dusk to dawn operation).

NOTE

EXISTING RELAY PANEL FURNISHED UNDER A PREVIOUS CONSTRUCTION PHASE. ALL RELAYS ARE EXISTING. RELAYS 3 AND 5 ARE UTILIZED FROM A PREVIOUS CONSTRUCTION PHASE AND ARE TO REMAIN. ALL OTHER EXISTING RELAYS ARE FOR NEW LOADS INSTALLED AS PART OF THIS CONTRACT.

LIGHTING FIXTURE SCHEDULE

TYPE	VOLTS	FIXTURE TYPE	MOUNTING	LAMPS	REFLECTOR/DIFFUSER	FEATURES	APPROVED MANUFACTURERS
A	120	4'x1' FLUORESCENT VANDAL RESISTANT	SURFACE - WALL EXISTING ROUGH-IN IN STAIR TOWER - SEE ELEVATIONS FOR ADDITIONAL INFORMATION	(2) F32T8/TL835 PLUS/ALTO	.156 CLEAR PRISMATIC ACRYLIC LENS	16 GAUGE STEEL HOUSING, ELECTRONIC 0' START COLD WEATHER BALLAST, WHITE POWER COAT FINISH	FAILSAFE FWS-232-120-EBB1 LITHONIA DAYBRITE COLUMBIA
AE	120	4'x1' FLUORESCENT VANDAL RESISTANT WITH EMERGENCY BATTERY BALLAST	SURFACE - CEILING / WALL ON EXISTING ROUGH-IN IN STAIR TOWER - SEE ELEVATIONS FOR ADDITIONAL INFORMATION	(2) F32T8/TL835 PLUS/ALTO	.156 CLEAR PRISMATIC ACRYLIC LENS	16 GAUGE STEEL HOUSING, ELECTRONIC 0' START COLD WEATHER BALLAST, WHITE POWER COAT FINISH, BODINE B50 EMERGENCY BATTERY BALLAST	FAILSAFE FWS-232-120-EBB1-B50 LITHONIA DAYBRITE COLUMBIA
B	120	FLUORESCENT WALL SCONCE	SURFACE - WALL	(1) PL-L 36W/830	OPAL GLASS DIFFUSER	ELECTRONIC BALLAST WITH -15' STARTING, CUSTOM COLOR	BEGA 4482P
C	120	4'x1' FLUORESCENT VANDAL RESISTANT	SURFACE - WALL	(2) F032/830/ECO	.156 CLEAR PRISMATIC ACRYLIC LENS	16 GAUGE STEEL HOUSING, ELECTRONIC 0' START COLD WEATHER BALLAST, WHITE POWER COAT FINISH	FAILSAFE FWW-232-120-EBB1 LITHONIA DAYBRITE COLUMBIA
D	120	COMPACT FLUORESCENT SURFACE DOWNLIGHT	SURFACE - CEILING	(1) PL-T 42W/830	.225 BOROSILICATE GLASS	CAST ALUMINUM HOUSING, ELECTRONIC 0' START BALLAST, BLACK FINISH, DUAL VOLTAGE BALLAST	FAILSAFE ROS-12-42CT-DT-BK LITHONIA DAYBRITE COLUMBIA
E	120	4'-0" LINEAR FLUORESCENT	SURFACE - CEILING	(1) F54T5/830/HO	SEMI SPECULAR ALUMINUM REFLECTOR WITH ACRYLIC LINEAR DIFFUSING LENS	20 GAUGE STEEL HOUSING, RECTANGULAR PROFILE, ELECTRONIC BALLAST, SINGLE CIRCUIT, TITANIUM SILVER FINISH	FOCAL POINT FMEC-4-1T5HO-1C-120-S-CM-TS
F	120	2'-0" LINEAR FLUORESCENT	SURFACE - CEILING	(1) F24T5/830/HO	SEMI SPECULAR ALUMINUM REFLECTOR WITH ACRYLIC LINEAR DIFFUSING LENS	20 GAUGE STEEL HOUSING, RECTANGULAR PROFILE, ELECTRONIC BALLAST, SINGLE CIRCUIT, TITANIUM SILVER FINISH	FOCAL POINT FMEC-2-1T5HO-1C-120-S-CM-TS
G	120	HID INGROUND LANDSCAPE FIXTURE	INGROUND	(1) CDM35/T6/830	BOROSILICATE LENS WITH CAST ALUMINUM GUARD	DIE CAST ALUMINUM HOUSING, HIGH POWER FACTOR BALLAST, SINGLE 60' OPENING, BLACK FINISH	BEGA 8714MH
H	120	COMPACT FLUORESCENT FIXTURE	SURFACE - WALL 36" ABOVE THE BOTTOM OF THE PIT	(1) PL-C 15MM 22W	POLYCARBONATE GLOBE	DIE CAST ALUMINUM HOUSING, DARK BRONZE FINISH, NORMAL POWER FACTOR BALLAST, UL LISTED WET LOCATION	HALO H2432BZ CAPRI FWY14 (FOR 2X0FT7W/G23 FLUORESCENT) LITHONIA WPCW-22DTT PRESCOLITE WB13-2
J		NOT USED					
K	120	HID LIGHT COLUMN	POLE MOUNTED SEE DETAIL 7, SHEET E6-01	(1) CDM150/T6/830	ANODIZED ALUMINUM REFLECTOR	STAINLESS STEEL FINISH, IP66	LUMESCAPE SCHREDER NEC-150MH-120-SS
L	120	INCANDESCENT UNDERWATER FLOOD LIGHT	GROUND MOUNTED SEE DETAIL ON DRAWINGS	(1) 35AR111/SP4	-	PROVIDE FIXTURE MANUFACTURER'S TRANSFORMER, WATTAGE AS REQUIRED.	LUMESCAPE LS265A-3 OR APPROVED EQUAL
M	208	HID FLOODLIGHT ASSEMBLY	POLE MOUNTED SEE DETAIL D, SHEET E6-01	(1) MH1000/U FOR EACH FLOODLIGHT	IES BEAM 8X26 - SPOT 154° TILT IES BEAM 13X53 - FLOOD 140° TILT IES BEAM 13X84 - FLOOD 122° TILT	ALUMINUM POLE WITH THREE HEAD BRACKET, DECORATIVE BASE COVER, 2" SLIPFITTING MOUNTING FOR FLOODLIGHT, FOUR SIDE SHIELD, BLACK FINISH	STERNER 595-SF-4S-924-H-208-E STERNER 595-SF-4S-1250-H-208-E STERNER 595-SF-4S-1270-H-208-E HAPCO 51-007 POLE AND 63-006 ARM
N	208	HID SITE LIGHTING LUMINAIRE	POLE MOUNTED SEE DETAIL A SHEET E6-02, AND DETAIL E SHEET E6-01	(1) MH400/U	SEGMENTED ALUMINUM TYPE 3	ALUMINUM POLE, UL LISTED WET LOCATION, GASKETED, PLATINUM SILVER FINISH, HIGH POWER FACTOR BALLAST	KM 1A-AR3-400MH208-PSP-PSA25-5188 GAROCO GULLWING INVUE
P	120	IN-GROUND FLOODLIGHT	GROUND	(1) 70W METAL HALIDE	GRIP GLASS	-	LUMESCAPE LS343-22N5X104-GG-HT OR APPROVED EQUAL
X	120	SINGLE FACE EXIT SIGN	SURFACE - WALL	LIGHT EMITTING DIODES FURNISHED WITH THE FIXTURE	-	SINGLE FACE, RED LETTERS ON WHITE BACKGROUND, UL LISTED OUTDOOR WET LOCATION, DIE CAST ALUMINUM HOUSING	FAILSAFE XLH-1-RW

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VILLAGE OF HARTFORD, ILLINOIS
HARTFORD, ILLINOIS 62049**

SHEET TITLE:
**LIGHTING FIXTURE
SCHEDULE**

REV. NO.	REMARKS	DATE

KENNEDY PROJECT NO
KAI# 10-02048

ISSUE DATE
APRIL 11, 2008

SHEET NO

E7-01

