STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

JOLIET VARIOUS MOVABLE BRIDGES

BRIDGE OFFICE BUILDING

ABBREVIATIONS, SYMBOLS LEGEND & TOTAL BILL OF MATERIALS ROOF PLAN - DEMOLITION

ROOF PLAN - NEW WORK ROOF PLAN - NEW WORK MECHANICAL OPTION 2 - DELETED

EXTERIOR ELEVATIONS **EXTERIOR ELEVATIONS EXISTING CONDITION DETAILS**

SUMMARY OF QUANTITIES

NEW WORK DETAILS

INDEX OF SHEETS

COVER SHEET

0

 \bigcirc

0

0

NEW WORK DETAILS MECHANICAL & ELECTRICAL ROOF PLAN - DEMOLITION MECHANICAL & ELECTRICAL ROOF PLAN - NEW WORK SECOND FLOOR POWER PLAN - DEMO & NEW WORK

MECHANICAL DETAILS

EXHAUST FAN AND VENTILATOR SCHEDULES

ROOF TOP UNIT SCHEDULE

PROJECT DESCRIPTION:

ROOF REPLACEMENT, EXTERIOR MASONRY TUCKPOINTING AND SEALING AND MODIFICATION AND PAINTING OF FIRE ESCAPE AT BRIDGE OFFICE BUILDING. PROJECT ALSO INCLUDES FURNISHING AND INSTALLING A NEW MECHANICAL ROOF TOP UNIT, FRESH AIR INTAKE HOOD AND REPLACEMENT EXHAUST FAN. ALONG WITH INCIDENTAL STRUCTURAL AND ELECTRICAL WORK. **MECHANICAL EQUIPMENT CURBS/PLATFORMS WILL BE FURNISHED AND INSTALLED UNDER A SEPARATE** CONTRACT TO BE COMPLETED CONCURRENTLY WITH THIS PROJECT. STRUCTURAL IN-FILL OF EXISTING -OPENINGS AND CONSTRUCTION OF NEW OPENINGS FOR MECHANICAL EQUIPMENT WILL ALSO BE INCLUDED WITH THE SEPARATE PROJECTS. MECHANICAL EQUIPMENT NOTE THAT TWO ROOF PLANS ARE SHOWN TO DEPICT TWO OPTIONS FOR MECHANICAL SYSTEMS. ONE OPTION WILL BE SELECTED.

FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ARCHITECTURAL SCALES, APPLICABLE BAR SCALES ARE SHOWN ON EACH SHEET

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION

PRINTED BY THE AUTHORITY

OF THE STATE OF ILLINOIS

1-800-892-0123 OR 811

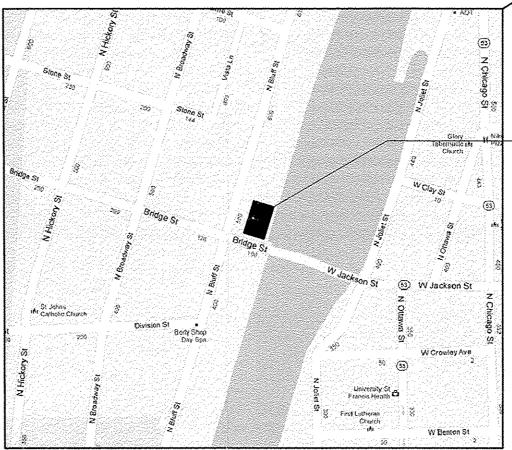
CONTRACT NO. 60V37

/1\ 09/04/12 ADDENDUM 1

AUTOMATION

SECTION NO. 2012-0451 CONSTRUCTION PROJECT NO. C-91-546-12 IMPROVEMENTS TO BUILDING EXTERIOR **WILL COUNTY**

D-91-301-09



LOCATION OF SECTION INDICATED THUS: -STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION **DIVISION OF HIGHWAYS** D. Baranzelli P.E. ENGINEER OF DESIGN AND ENVIRON

BRIDGE OFFICE SUILDING

PROJECT MANAGER - SERIN KELLER (847) 705-4556 PROJECT ENGINEER - JOE SACCOMANNO (847) 705-4594



Hanson Professional Services Inc.

MARKS 001-021755 OF ILLIAM EXPIRES: 11/30/12 6/28/2012

BRIDGE OFFICE BUILDING

LOCATION PLAN NO SCALE

CONSTRUCTION CODE 100% STATE BRIDGE 0044 URBAN CODE NO. 1 TEM UNIT TOTAL QUANTITY X0323964 ROOF DRAIN COLLECTION NETWORK 88 FOOT SQYD X0325153 MASDNRY CLEANING AND TUCKPOINTING 4,265 X0327397 ROOF REPLACEMENT. LOCATION 1 L SUM 1 X0327468 ROOF DECK CONCRETE CORNER REPAIR L SUM 1 X0321469 MASONRY FACE BRICK REPAIR 60 SOFT X031.7470 MASONRY SEALER SAFT 4.265 X0327471 MODIFICATION AND PAINTING OF FIRE ESCAPE L SUM X0327472 ROOFING SAMPLING AND ACM IDENTIFICATION L SUM 1 X0327473 HANDLING OF ASBESTOS CONTAINING MATERIALS (ACM) L SUM L SUM X032744 MECHANICAL WORK COMPLETE L SUM

 Δ

1 Rev. 9-6-12

Ł						£			
Г	~	USER HAME =	BESTORE - EAM	REVISED	STATE OF ILLINOIS		SECTION	COUNTY 101A	, Tale
ł	CST HANSON.		ORABN - EJM	REVISED	DEPARTMENT OF	SUMMARY OF QUANTITIES	3012-0451	PAFFI	3 ML
I		Prof SCALE =	CHECKED - EIM	REAL SED			5005.8451	CONTRACT NO	- GAV2
Hanson Professional Services Inc.		PEG1 8416 < 06-26-2012	APPROVED GLO	BEVISEB	TRANSPORTATION	Scale SHELES 2 of 11 SHEES Station from Station to	Introots Life.	AID \$ROSEC!	0040
									_

ABBREVIATIONS

@ - AT A.B. - ANCHOR BOLT A/C - AIR CONDITIONING ACT - ACOUSTICAL TILE AD. - AREA DRAIN, AS SHOWN ADJ. - ADJUST - ADJUSTABLE A.F.F. - ABOVE FLOOR FINISH AL - ALUM - ALUMINUM ALT. - ALTERNATE

AP. - ACCESS PANEL APPROX - APPROXIMATELY BB. - BULLETIN BOARD B.C. - BRICK COURSES BD. - BOARD BITUM. - BITUMINOUS BLDG. - BUILDING BLK - BLOCK, BLKG, - BLOCKING BM., B.M. - BEAM, BENCH MARK B.O.F. - BOTTOM OF FOOTING BOT. - BOTTOM B.P. - BASE PLATE

- CENTERLINE CAB. - CABINET CAP. CAPACITY C.B. - CHALK BOARD C.C. - CENTER TO CENTER C.D. - CEILING DIFFUSER CER. - CERAMIC C.F.M. - CUBIC FEET PER MINUTE C.H. - COAT HOOK C.J. - CONTROL JOINT CLR. - CLEAR, COLOR CLG. - CEILING CLKG. - CAULKING C-CLOSET C.M.U. - CONCRETE MASONRY UNITS C.O. - CLEANOUT COL. - COLUMN CONC. - CONCRETE

CONST. - CONSTRUCTION CONT. - CONTINUOUS

CONTR. - CONTRACT COR. BD. - CORNER BEAD C.R. - COLD ROLLED CPT. - CARPET C.T. - CERAMIC TILE CTSK - COUNTERSUNK C.W. - COLD WATER C.F./C.L - CONTRACTOR FURNISHED/

DIA - DIAMETER DET. - DETAIL DIA - DIAMETER DIAG. - DIAGONAL DIAGRAM DIM - DIMENSION DISP - DISPENSES D.L - DEAD LOAD

DN. - DOWN D.P. - DAMPPROOFING, DUMPSTER PAD, DEPTH DR. - DOOR D.S. - DOWNSPOUT D.W. - DISHWASHER D.W.C. - DRINKING WATER COOLER

DBL. - DOUBLE E.W.C. - ELECTRIC WATER COOLER E.W.H. - ELECTRIC WATER HEATER FXH . FXHAUST EXIST. - EXISTING

EXP. - EXPANSION, EXPOSED EXT. - EXTERIOR E. - EAST EA - EACH E.F.S. - EXTERIOR INSULATION FINISH SYSTEM E.F. - EACH FACE

E.J., EXP. JT. - EXPANSION JOINT EL - ELEVATION ELEC. - ELECTRICAL EQ. - EQUAL

FOLIR - FOLIPMENT E.W. - EACH WAY F.A. - FRESH AIR F.A.P. - FIRE ALARM PANEL F.C. - FURRED CEILING F.C.U. - FAN COIL UNIT F.D. - FLOOR DRAIN, FIRE DAMPER FDN., FOUND. - FOUNDATION F.E.C. - FIRE EXTINGUISHER CABINET

F.F.EL. - FINISH FLOOR ELEVATION F.G. - FINISH GRADE F.H. - FIRE HYDRANT, FLAT HEAD F.H.C. - FIRE HOSE CABINET FIN. - FINISH (ED) (ES) FL - FLOOR FT. - FOOT, FEET, FT. - SQ. FT. F.T.D. - FACIAL TISSUE DISPENSER

FTG. - FOOTING

FURN. - FURNITURE FUT - FUTHER

GA - GAGE GAL. - GALLON GALV. - GALVANIZED G.B. - GRAB BARS

G.F./C.I. - GOVERNMENT FURNISHED/ CONTRACTOR INSTALLED G.F.E. - GOVERNMENT FURNISHED - EQUIPMENT G.F.R.C. - GLASS FIBER REINFORCED CONCRETE GL, G.L. - GLASS, GRADE LINE GR. - GRADE GRD. - GROUND G.T. - GREASE TRAP

GYP. BD. - GYPSUM BOARD H., HGT., HT. - HEIGHT H.B. - HOSE BIBB H.M. - HOLLOW METAL HORIZ - HORIZONTAL H.P. - HIGH POINT HR - HOUR HTG - HEATING H.W. - HOT WATER HDW. - HARDWARE

GWB - GYPSUM WALL BOARD

I.D. - INSIDE DIAMETER IN, - INCH INSUL - INSULATION INT. - INTERIOR INV - INVERT

HWY. - HIGHWAY

JAN. - JANITORS'S CLOSET JT. - JOINT JST. - JOIST J.C. - JANITOR'S CLOSET

K.O. - KNOCKOUT K.P.-KICK PLATE K.D.-KILN DRIED LAB, - LABORATORY LAV. - LAVATORY LB. - POUND

LBS. - POUNDS LG. - LONG LH. - LEFT HAND LKR. - LOCKER LL - LIVE LOAD LLHALONG LEG HORIZONTAL L.L.V. - LONG LEG VERTICAL L.P. - LOW POINT

MAINT, - MAINTENANCE MAS - MASCINEY

MAX. - MAXIMUM M.C. - MEDICINE CABINET MECH - MECHANICAL MEZZ. - MEZZANINE MET, - METAL MFG - MANUFACTURER M.G. - MIRROR GLASS MH - MANHOLF

MIN. - MINIMUM MISC - MISCELLANEOUS M.O. - MASONRY OPENINGS MULL - MULLION

N. - NORTH N.LC. - NOT IN CONTRACT NO -NUMBER N.T.S. - NOT TO SCALE

O.C. - ON CENTER (S)
O.D. - OUTSIDE DIAMETER, OVERFLOW DRAIN OFF, - OFFICE O.H. - OPPOSITE HAND O.J. - OPEN JOISTED OPP. - OPPOSITE O.R. - OUTSIDE RADIUS OZ. - OUNCES

O.A - OUTSIDE AIR

P.E.J. - PREMOLDED EXP. JT. MAT. P.I. - POINT OF INTERSECTION
P.J.F. - PREFORMED JOINT FILLER PL.-PLATE PLAS.-PLASTER P. LAM. - PLASTIC LAMINATE PLYWD. - PLYWOOD PNL - PANEL PNLS. - PANELS PR. - PAIR
P.S.F. - POUNDS PER SQUARE FOOT P.S.I. - POUNDS PER SQUARE INCH PT. - POINT, POINT OF TANGENT

P.T.D. - PAPER TOWEL DISPENSER

Q.T. - QUARRY TILE QTY. - QUANTITY

R.B. - RESILIENT BASE R. - RADIUS, RISER R.A. - RETURN AIR RAD. - RADIUS

R.D. - ROOF DRAIN RECP. - RECEPTACLE REF. - REFERENCE REINF, - REINFORCE (D), (MENT) REQ'D. - REQUIRED

VEST, · VESTIBULE

V.F. - VINYL FABRIC V.S. - VENT STACK

WI-WITH

W/O-WITHOUT

W.D. - WOOD

WDW - WINDOW

WT. - WEIGHT WTR. - WATER

W.G. - WIRE GLASS

WAINS - WAINSCOT

W.C. - WATER CLOSET

V.T.R. - VENT THROUGH ROOF V.W.C. - VINYL WALL COVERING

W.P. - WATERPROOF, WEATHERPROOF W.R. - WASTE RECEPTACLE

W.W.F. - WELDED WIRE FABRIC

R.O. - ROUGH OPENING SAN. - SANITARY S.B. - SPLASH BLOCK S.C. - SOLIO CORE, SHOWER CURTAIN SCHED. - SCHEDULE SCR., - SCREEN S.C.R. - SHOWER CURTAIN ROD S.D. - SOAP DISPENSER

SECT. - SECTION SEP. - SEPARATE SH. - SHEET SHOWER SHV. - SHELF, SHELVES SIM - SIMILAR SL - SLOPE S.M. - SHEET METAL S.N.D. - SANITARY NAPKIN DISPENSER

RET. - RETAINING REV. - REVISION

RM(S) - ROOM(S)

S.N.T.D. - SANITARY NAPKIN & TAMPON DISPOSER SP. - SPACES SPEC. (S) - SPECIFICATIONS
SQ. - SQUARE
S.S. - STAINLESS STEEL, SERVICE SINK
STL. - STEEL

ST. - STORAGE STD. - STANDARD STRUCT. - STRUCTURAL SUP. - SUPPORT SUSP. - SUSPENDED SYS. - SYSTEM

T & G - TONGUE AND GROOVE T.B. - TOWEL BAR T.C. - TOP OF CURB T.D. - TILE DRAIN TEMP. - TEMPERATURE THK. - THICK T.O.B. - TOP OF BEAM T.O.S. - TOP OF STEEL T.T.D. - TOILET TISSUE DISPENSER T.W. - TOP OF WALL TYP. - TYPICAL

U.H. - UNIT HEATER U.N.O. - UNLESS NOTED OTHERWISE V. - VENT
V.C.T. - VINYL COMPOSITION TILE VERT, - VERTICAL (LY)

SYMBOLS LEGEND

Room name ROOM DESIGNATION

DOOR NUMBER

-

(101)

1

WINDOW TYPE

DETAIL

SHOWN

WALL TAG

INTERIOR ELEVATION

PLAN NUMBER SHEET ON WHICH PLAN IS

INTERIOR ELEVATION NUMBER (A101) SHEET ON WHICH ELEV IS SHOWN

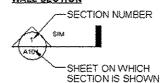
BUILDING SECTION

ENLARGED PLAN



SECTION NUMBER PLAN NUMBER SHEET ON WHICH PLAN IS SHOWN

WALL SECTION



GENERAL NOTES / SPECIAL REQUIREMENTS:

- 1. CONTRACTOR AND SUBCONTRACTORS SHALL REVIEW, CHECK, AND VERIFY ALL DRAWINGS, DIMENSIONS, DETAILS, AND EXISTING SITE CONDITIONS FOR ACCURACY AND CONFORMANCE WITH SPECIFICATIONS PRIOR TO PROCEEDING WITH THE WORK
- 2. ANY DISCREPANCY IN THE DRAWINGS AND DIMENSIONS OR VARIATIONS BETWEEN EXISTING CONDITIONS AND THAT SHOWN ON THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR INSTRUCTION PRIOR TO START OF PROJECT.
- 3. ANY NECESSARY WORK ACTIVITIES NOT SHOWN OR DETAILED ON THE DRAWINGS BUT IS WITHIN THE WORK LIMITS AS INDICATED ON THE DRAWINGS SHALL BE CONSIDERED TO BE PART OF THE CONTRACT WORK AND SHALL NOT BE ELIGIBLE FOR CHANGE ORDERS.
- 4. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE WORK IN SUCH A FASHION AS NOT TO DISRUPT UTILITY SERVICES TO THE OWNER OR OWNER'S OCCUPANTS, ANY DAMAGE AND SUBSEQUENT REPAIRS TO EXISTING SYSTEMS SHALL BE THE SOLE RESPONSIBILITY OF THE
- 5. CONTRACTOR SHALL BE RESPONSIBLE FOR DAILY CLEANING OF THE WORK SITE AND ALL CLEANING OF FLOORS OUTSIDE THE WORKING LIMITS AS DIRECTED AND TO THE SATISFACTION OF THE ENGINEER.
- 6. THE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS REPRESENTED HEREIN DO NOT INDICATE THE METHOD OR MEANS OF CONSTRUCTION ACTIVITIES.
- 7. THE CONTRACT SPECIFICATIONS AND DRAWINGS REPRESENT AND SHALL BE CONSIDERED ONE COMPLETE SET OF CONSTRUCTION DOCUMENTS.

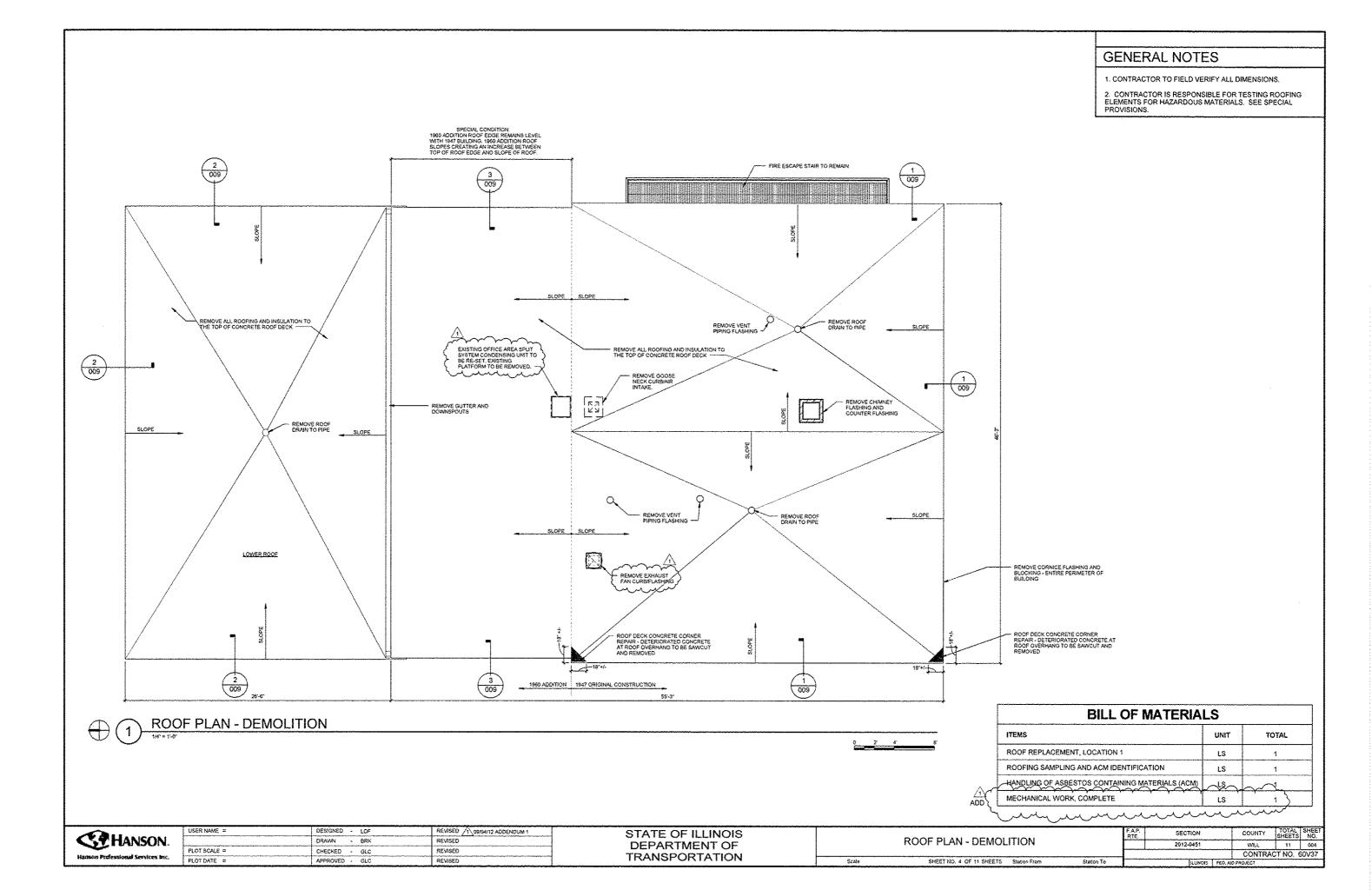
TOTAL BILL OF MATE	RIALS	3
ITEMS	UNIT	TOTAL
ROOF DRAIN COLLECTION NETWORK	ĻF	88
MASONRY CLEANING AND TUCKPOINTING	SF	4,265
ROOF REPLACEMENT, LOCATION 1	LS	1
ROOF DECK CONCRETE CORNER REPAIR	LŞ	1
MASONRY FACE BRICK REPAIR	ŞF	60
MASONRY SEALER	SF	4,265
MODIFICATION AND PAINTING OF FIRE ESCAPE	LS	1
ROOFING SAMPLING AND ACM IDENTIFICATION	LS	1
HANDLING OF ASBESTOS CONTAINING MATERIALS (ACM)	LS	1
MOBILIZTION	~\\$~	h1/2
MECHANICAL WORK, COMPLETE	LS	1 }

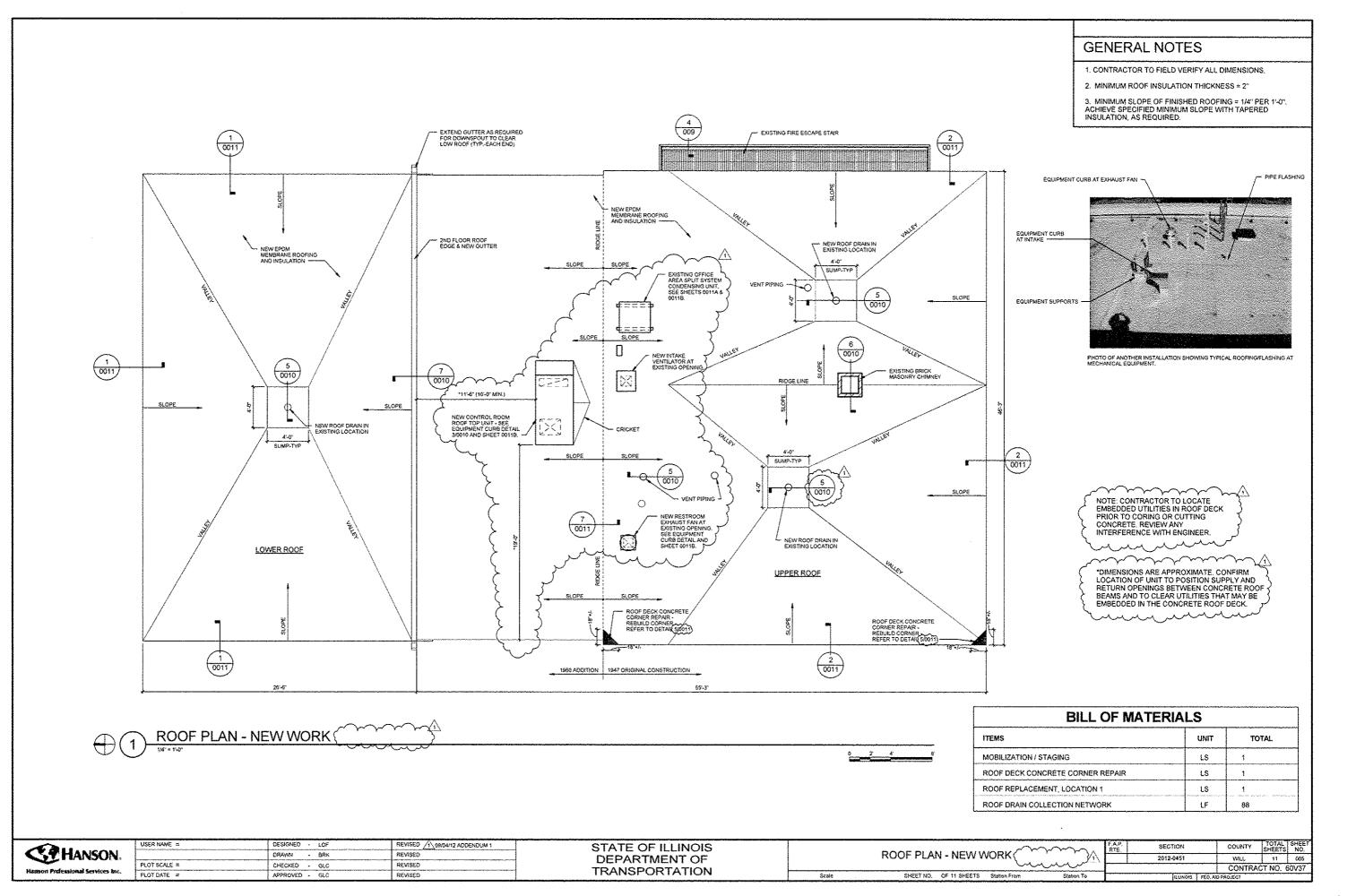
CHANSON
Hanson Professional Services Inc.

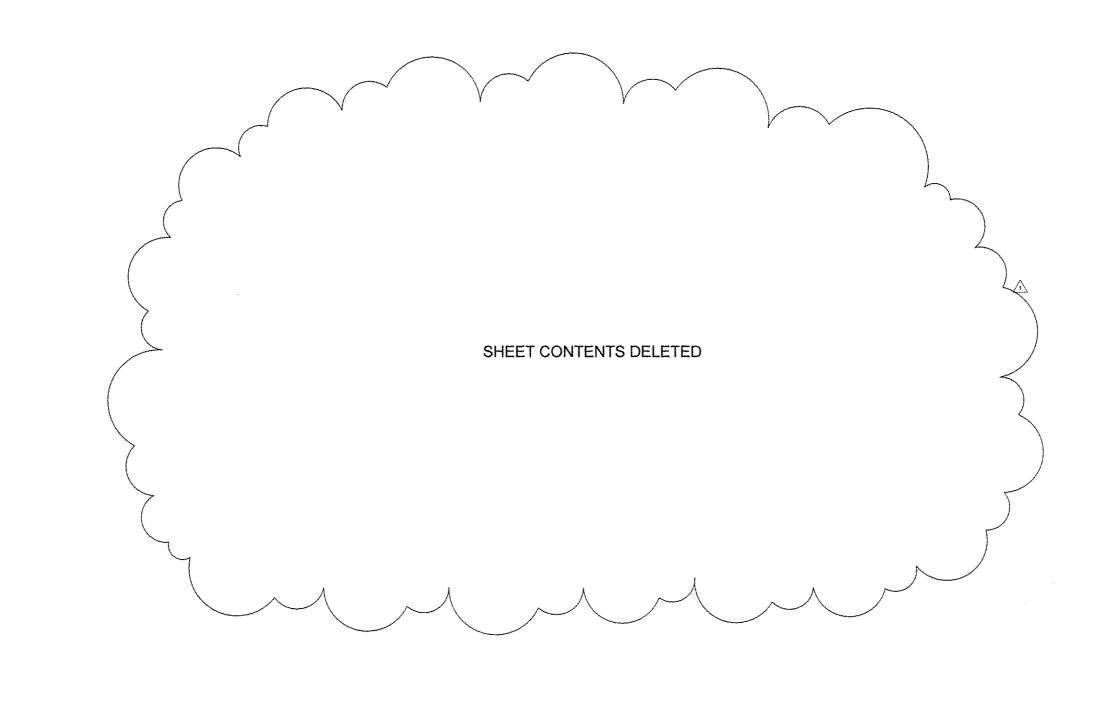
JSER NAME =	DESIGNED - LOF	REVISED /1\09/04/12 ADDENDUM 1	
	DRAWN • 8RK	REVISED	ŀ
LOT SCALE =	CHECKED - GLC	REVISED	
PLOT DATE =	APPROVED - GLC	REVISED	į

STATE O	FILLI	NOIS
DEPART	MEN	TOF
TRANSP	ORTA	TION

ABBREVIATIONS, SYMBOLS LEGEND AND TOTAL BILL OF MATERIALS			F.A.P. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.	
				2012-0451	WILL	11	003	
 	IVIMIENIALO					CONTRA	CT NO.	60V37
Scale	SHEET NO. 3 OF 11 SHEETS SI	lation From	Station To		ILUNOIS FED. /	VD PROJECT		







HANSON.	
Hanson Professional Services Inc.	

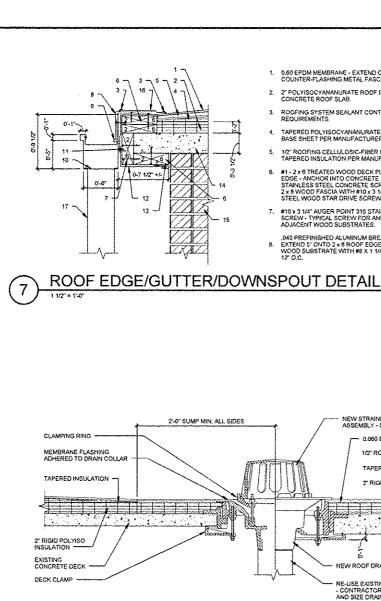
USER NAME =	DESIGNED	-	LOF	REVISED 1 09/04/12 ADDENDUM 1	
	DRAWN	-	8RK	REVISED	
PLOT SCALE =	CHECKED	-	GLC	REVISED	
PLOT DATE =	APPROVED	-	GLC	REVISED	

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

	$\sim \cdot \cdot \cdot$	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			
ROOF P	LAN - NEW	WORK ME	CHANICAL OPT	ION 2 -	
DELETED AND ALL					
Scale	<u></u>	HEET NO. 6 OF 11 SH	<u> </u>	Station To	

F.A.P. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.	
	2012-0451	WILL	11	006	
		CONTRACT NO. 60V37			

ILLUNOIS | FEO. AID PROJECT



- 2" POLYISOCYANANURATE ROOF INSULATION ADHERE TO EXISTING CONCRETE ROOF SLAB.
- ROOFING SYSTEM SEALANT CONTINUOUS PER MANUFACTURER REQUIREMENTS.
- TAPERED POLYISOCYANANURATE ROOF INSULATION ADHERE TO BASE SHEET PER MANUFACTURER'S REQUIREMENTS.
- 1/2' ROOFING CELLULOSIC-FIBER BOARD INSULATION ADHERE TO TAPERED INSULATION PER MANUFACTURER'S REQUIREMENTS.
- #1 2 x 8 TREATED WOOD DECK PLATE CONTINUOUS ALONG ROOF EDGE ANCHOR INTO CONCRETE ROOF DECK WITH 3 1/8" X 1/4" 410 STAINLESS STEEL CONCRETE SCREW @ 12" O.C. MINIMUM AND INTO 2 x 8 WOOD FASCIA WITH #10 x 3 1/4" AUGER POINT 316 STAINLESS STEEL WOOD STAR DRIVE SCREW @ 12" O.C.
- #10 x 3 1/4" AUGER POINT 316 STAINLESS STEEL WOOD STAR DRIVE SCREW TYPICAL SCREW FOR ANCHORING ALL WOOD INTO ADJACENT WOOD SUBSTRATES.
- .940 PREFINISHED ALUMINUM BREAKMETAL ROOF EDGE FLASHING -EXTEND 5" ONTO 2 x 6 ROOF EDGE SUBSTRATE ANCHOR INTO WOOD SUBSTRATE WITH #8 X 1 1/4" STAINLESS STEEL SCREWS AT 12" O.C.

NEW STRAINER AND ROOF DRAIN ASSEMBLY - CAST IRON

NEW ROOF DRAIN ASSEMBLY

0.060 EPDM MEMBRANE SYSTEM

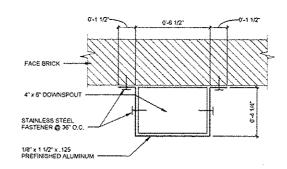
Z RIGID POLYISO INSULATION

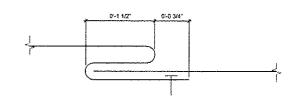
RE-USE EXISTING STORM WATER DRAIN PIPING - CONTRACTOR TO VERIFY EXISTING PIPE SIZE AND SIZE DRAIN ASSEMBLY ACCORDINGLY.

1/2" ROOFING CELLULOSIC-FIBER SOARD TAPERED POLYISO INSULATION VARIES

3 1/2" & 5" CONCRETE DECK THICKNESS ---

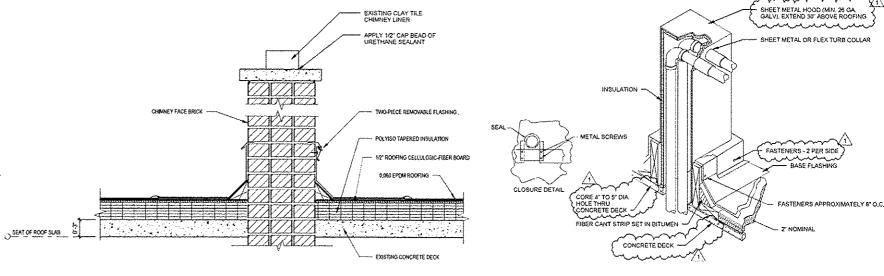
- .0125 ALUMINUM GUTTER BRACKET ANCHOR BACKSIDE INTO 2 x 6 TREATED WOOD DECK PLATE @ 24 O.C. AND RIVET FRONT SIDE INTO FACE OF GUTTER RETURN WITH STAINLESS STEEL RIVETS.
- 10. .050 PREFINISHED ALLIMINUM GUTTER CONTINUOUS ALONG NORTH ROOF EDGE OF UPPER ROOF - FLASHING UNDER AND ANCHORED TO CONTINUOUS TREATED WOOD SUBSTRATE @ 12" O.C.
- 11. #1-2×6 TREATED WOOD FASCIA CONTINUOUS ALONG ROOF EDGE FASTENED TO EDGE OF CONCRETE ROOF DECK WITH 3 1/4" x 1/4" 410 STAIRLESS STEEL CONCRETE SCREW @ 12" O.C.
- 040 PREFINISHED ALUMINUM BREAKMETAL FASCIA AND SOFFIT COVER FLASH UNDER GUTTER CONTINUOUS ALONG NORTH ROOF EDGE ON UPPER ROOF ANCHOR INTO WOOD SUBSTRATE.
- 13, .040 PREFINISHED ALUMINUM BREAKMETAL "J" MOLD TRIM-CONTINUOUS ALONG NORTH ROOF EDGE ON UPPER ROOF ANCHOR INTO 2.40 MOOD SUBSTRATE WITH #6 x 1 1/4" STAINLESS STEEL SCREW @ 12" O.C.
- 14. EXISTING CONCRETE ROOF DECK.
- 15. EXISTING MASONRY FACE BRICK.
- 16. .066 EPDM STRIP-FLASHING PER MANUFACTURER'S REQUIREMENTS.
- 4" x 6" .050 PREFINISHED ALIMINUM DOWNSPOUT ANCHOR TO BUILDING WITH, 125 ALUMNUM BRACKETS PLACED WITH NOT MORE THAN 5 FEET BETWEEN.





DOWNSPOUT STRAP DETAIL - TYP. 8

SHEETMETAL SPLICE DETAIL - TYP. **_9**`



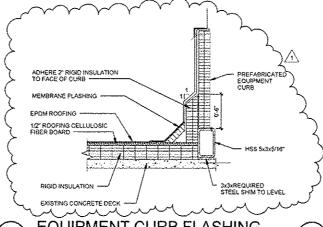
ROOF DRAIN - TYPICAL (5)

CHIMNEY FLASHING DETAIL - TYPICAL 6

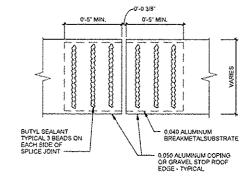
PIPE CURB DETAIL (10)

EXHAUST VENT AND PREFABRICATED CURB MEMBRANE FLASHING TREATED WOOD NAILER 1/2' ROOFING CELLULOSIC FIBER BOARD RIGID INSULATION ---EXISTING CONCRETE DECK

PLUMBING VENT STACK - EXISTING TO REMAIN. EPOM PIPE FLASHING FLASHING FLANGE 1/2" ROOFING CELLULOSIC FIBER BOARD RIGID POLYISO INSULATION - VARIES EXISTING CONCRETE DECK



Scale



EXHAUST CURB FLASHING

VENT PIPE FLASHING (PRE-FAB)

EQUIPMENT CURB FLASHING 3

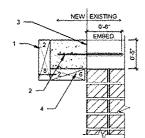
COPING/GRAVEL STOP SPLICE DETAIL - TYP

CHANSON.

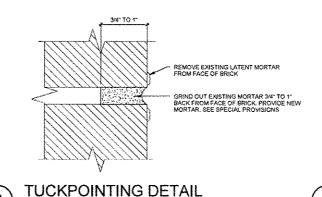
USER NAME =	DESIGNED - LOF	REVISED 1 09/04/12 ADDENDUM 1	
	DRAWN - BRK	REVISED	
PLOT SCALE =	CHECKED - GLC	REVISED	
PLOT DATE =	APPROVED - GLC	REVISED	i

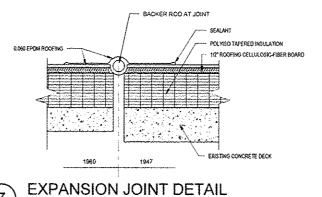
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

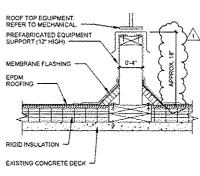
•		P.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
NEW WORK DETAILS			2012-0451	WILL	11	0010
				CONTRAC		0V37
CHEET NO 10 OF 11 RHEETS CHARA FROM	Ctation Yo		**************************************		~	



- 1. #1 2 x 8 TREATED WOOD FORMWORKFASCIA-CONTINUOUS ALONG ROOF EDGE FASTENED TO EDGE OF CONCRETE ROOF DECK WITH 3 14th x 1/4" 410 STAINLESS STEEL SCREWS AT 12" O.C.
- 2. 1/2" DIA, THREADED ROD EPOXY ANCHOR AT 6" OC
- 3. SAW-CUT FULL DEPTH
- 4. BONDED CONSTRUCTION JOINT

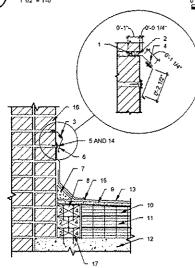






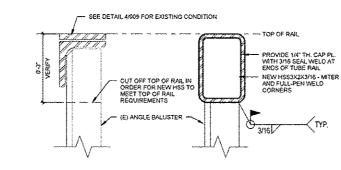




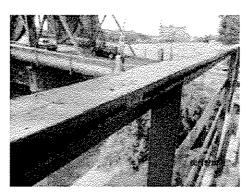


- ELASTOMERIC JOINT SEALANT POLYURETHANE SEALANT CONTINUOUS AND TOOLED SMOOTH.
- PREFINISHED METAL WALL FLASHING RECEIVER-INSERTED INTO CUT REGLET IN MASONRY MORTAR JOINT CUT !* DEEP MIN. THIS RECEIVER IS TO BE PERMANENT.
- MO 3/4" PAN HEAD STAINLESS STEEL SHEETMETAL SCREW INSERT SCREW INTO METAL RECEIVER AT 30" MAXIMUM TYPICAL
- TERMINATION BAR CONTINUOUS ALONG ROOFING MEMBRANE APPLY MANUFACTURER APPROVED CAP BEAD OF SEAL ANT CONTINUOUS ALONG TOP EOGE OF TERMINATION BAR AND INSTALL SEALANT BETWEEN MEMBRANE AND MASONRY SUBSTRATE.
- PREFINISHED METAL REMOVABLE WALL COUNTER-FLASHING INSERT INTO RECEIVER PORTION COVERING ROOFING TERMINATION BAR.
- FIBER CANT AS REQUIRED BY ROOFING MANUFACTURER.

- 1/2" BC PLYWOOD RIPPER CONTINUOUS ALONG NORTH ROOF EDGE ON UPPER ROOF - ANCHOR INTO 2 x 4 WOOD SUBSTRATE.
- 10. TAPERED POLYISOCYANANURATE ROOF INSULATION ADHERED TO BASE SHEET PER MANUFACTURER REQUIREMENTS.
- 11. 2' POLYISOCYANANURATE ROOF INSULATION -ADHERE TO EXISTING CONCRETE ROOF DECK.
- 12. EXISTING CONCRETE ROOF DECK.
- 0.60 EPDM MEMBRANE EXTEND UP WALL AND OR CHIMNEY AND TERMINATE WITH TERMINATION BAR AS REQUIRED BY MANUFACTURER.
- 14, 1/4" x 1 1/2" HEX STAINLESS STEEL CONCRETE SCREW INSTALL THRU TERMINATION BAR INTO MASONRY MORTAR JOINT.
- 15. ROOFING SYSTEM SEALANT CONTINUOUS PER MANUFACTURER REQUIREMENTS.
- 16. EXISTING MASONRY FACE BRICK,
- 17. TREATED PLYWOOD AS REQUIRED TO ACHIEVE SPECIFIED ROOF SLOPE.

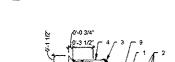


RAIL REPLACEMENT DETAIL



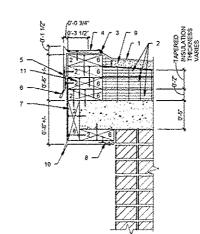


TWO-PIECE REMOVEABLE COUNTER-FLASHING - TYP.



3

- 2. 2" POLYISOCYAMANURATE ROOF INSULATION AND TAPERED POLYISOCYAMANURATE ROOF INSULATION ADHER TO EXISTING CONCRETE ROOF DECK AND ADJACENT LAVERS OF TAPERED. BUILD UP AT 30 DEGREES BETWEEN VARIANCES BETWEEN TOP OF METAL LEVEL GRAVEL STOP AND 2" RIGID BASE INSULATION SHEET ON 1960 ADDITION SINGLE SLOPED ROOF.
- ROOF SYSTEM SEALANT CONTINUOUS PER
 MANUFACTURER REQUIREMENTS.
- 4. ,060 EPDM STRIP-FLASHING PER MANUFACTURER REQUIREMENTS.
- 5, .040 ALLMINUM BREAKMETAL CONTINUOUS CLEAT -ANCHOR INTO WOOD SUBSTRATE WITH #8 1 1/4" STAINLESS STEEL SCREWS AT 12" O.C.
- ,040 PREFINISHED ALUMINUM BREAKMETAL GRAVEL STOP EXTEND 3 1/2" ONTO 2 V8 ROOF EDGE SUBSTRATE ANCHOR INTO WOOD SUBSTRATE WITH #8 1 1/4" STAINLESS STEEL SCREWS AT 1/2" O.C.
- 7. #1 2 x 6 TREATED WOOD FASCIA CONTINUOUS ALONG ROOF EDGE FASTENED TO EDGE OF CONCRETE ROOF DECK WITH 3 1/4" x 1/4" 410 STAINLESS STEEL SCREWS AT 12" O.C.
- 8. ,040 ALUMINUM BREAKMETAL CONTINUOUS CLEAT-ANCHOR INTO WOOD SUBSTRATE WITH #8 x 1 1/4" STAINLESS STEEL SCREWS AT 12" O.C.
- 1/2" ROOFING CELLULOSIC FIBER BOARD INSULATION -ADHERE TO TAPERED INSULATION PER MANUFACTURER REQUIREMENTS.
- NOTE: REFER TO GUTTER DETAIL FOR SUBSTRATE INFORMATION AND ANCHORAGE TO EXISTING SUBSTRATES.
- 10. DRIP LEG
- 11. TREATED PLYWOOD AS REQUIRED TO ACHIEVE SPECIFIED ROOF SLOPE



- 0.60 EPDM MEMBRANES EXTEND OVER ROOF EDGE 2 x
 6 WOOD BLOCKING AND LAP OVER METAL FASCIA
 COVER,
- 2. Z' POLYISOCYANANURATE ROOF INSULATION AND TAPERED POLYISOCYANANURATE ROOF INSULATION ADHERE TO EXISTING CONCRETE ROOF DECK AND ADJACENT LAYERS OF TAPERED, BUILD UP AT 30 DEGREES BETWEEN YARJANCES BETWEEN TOP OF METAL
- ROOF SYSTEM SEALANT CONTINUOUS PER MANUFACTURER REQUIREMENTS.
- .060 EPDM STRIP-FLASHING PER MANUFACTURER REQUIREMENTS.
- 5. .040 ALUMINIM BREAKMETAL CONTINUOUS CLEAT -ANCHOR INTO WOOD SUBSTRATE WITH #8 1 1/4" STAINLESS STEEL SCREWS AT 12" O.C.
- .040 PREFINISHED ALUMINUM BREAKMETAL GRAVEL STOP EXTEND 3 1/2" ONTO 2 x 6 ROOF EDGE SUBSTRATE ANCHOR INTO WOOD SUBSTRATE WITH #6 1 1/4" STANLESS STEEL SCREWS AT 12"
- #1 2 x 8 TREATED WOOD FASCIA CONTINUOUS ALONG ROOF EDGE FASTENED TO EDGE OF CONCRETE ROOF DECK WITH 3 147 x 1/4* 410 STAINLESS STEEL SCREWS AT 12" O.C.
- .040 ALUMINUM BREAKMETAL CONTINUOUS CLEAT-ANCHOR INTO WOOD SUBSTRATE WITH #8 x 1 1/4" STAINLESS STEEL SCREWS AT 12" O.C.
- 1/2 ROOFING CELLULOSIC FIBER BOARD INSULATION ADHERE TO TAPERED INSULATION PER MANUFACTURER REQUIREMENTS.
- NOTE: REFER TO GUTTER DETAIL FOR SUBSTRATE INFORMATION AND ANCHORAGE TO EXISTING SUBSTRATES.
- 11. TREATED PLYWOOD AS REQUIRED TO ACHIEVE SPECIFIED ROOF SLOPE

3 1/2" ROOF EDGE DETAIL

4

5" ROOF EDGE DETAIL

CHANSON.
Hanson Professional Services Inc.

USER NAME =	DESIGNEO -	LOF	REVISED 1 09/04/12 ADDENDUM 1	
	DRAWN .	BRK	REVISED	
PLOT SCALE =	CHECKED -	GLC	REVISED	
PLOT DATE =	APPROVED -	GLC	REVISED	
				_

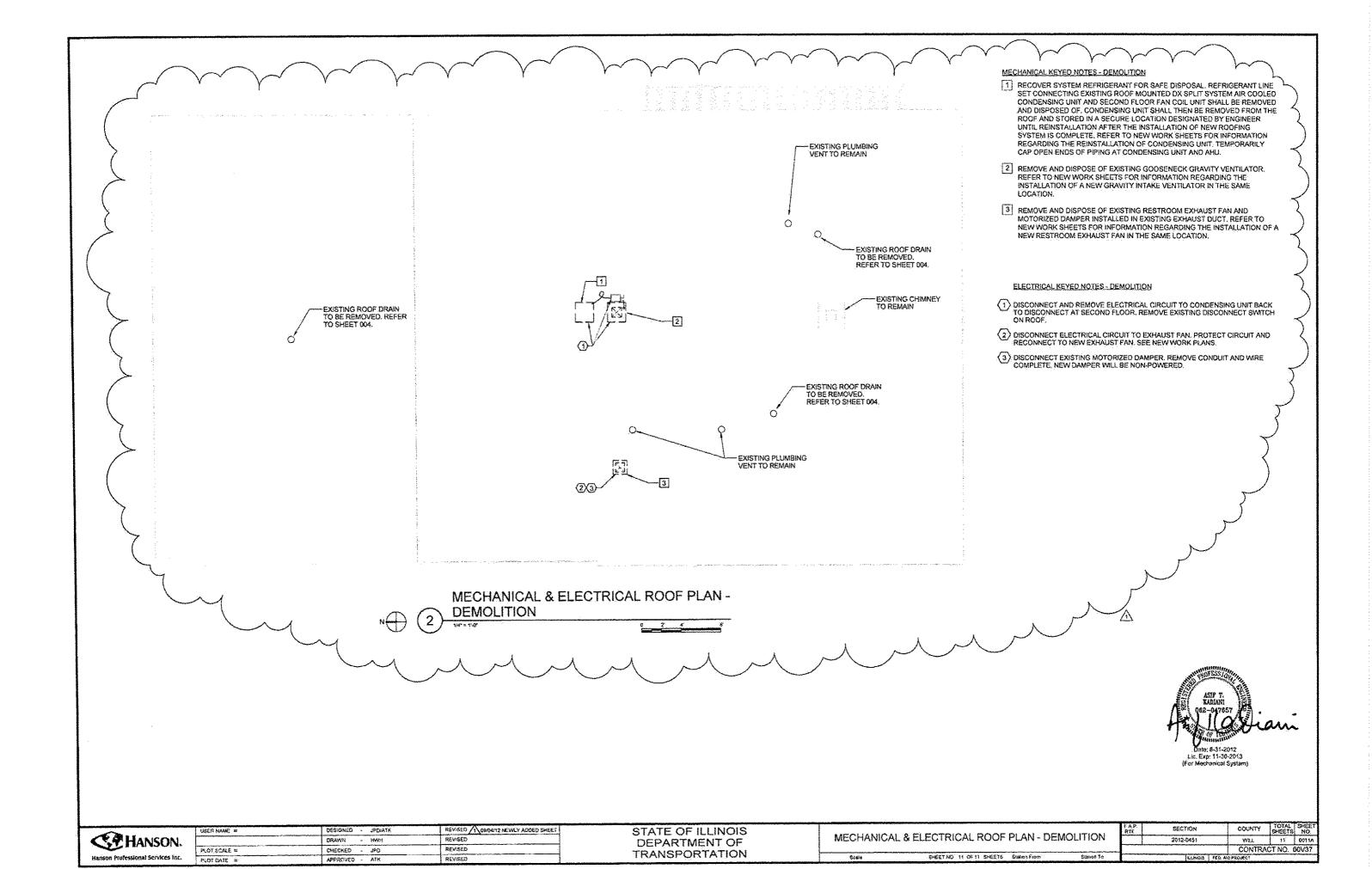
STATE OF ILLINOIS	
DEPARTMENT OF	
TRANSPORTATION	

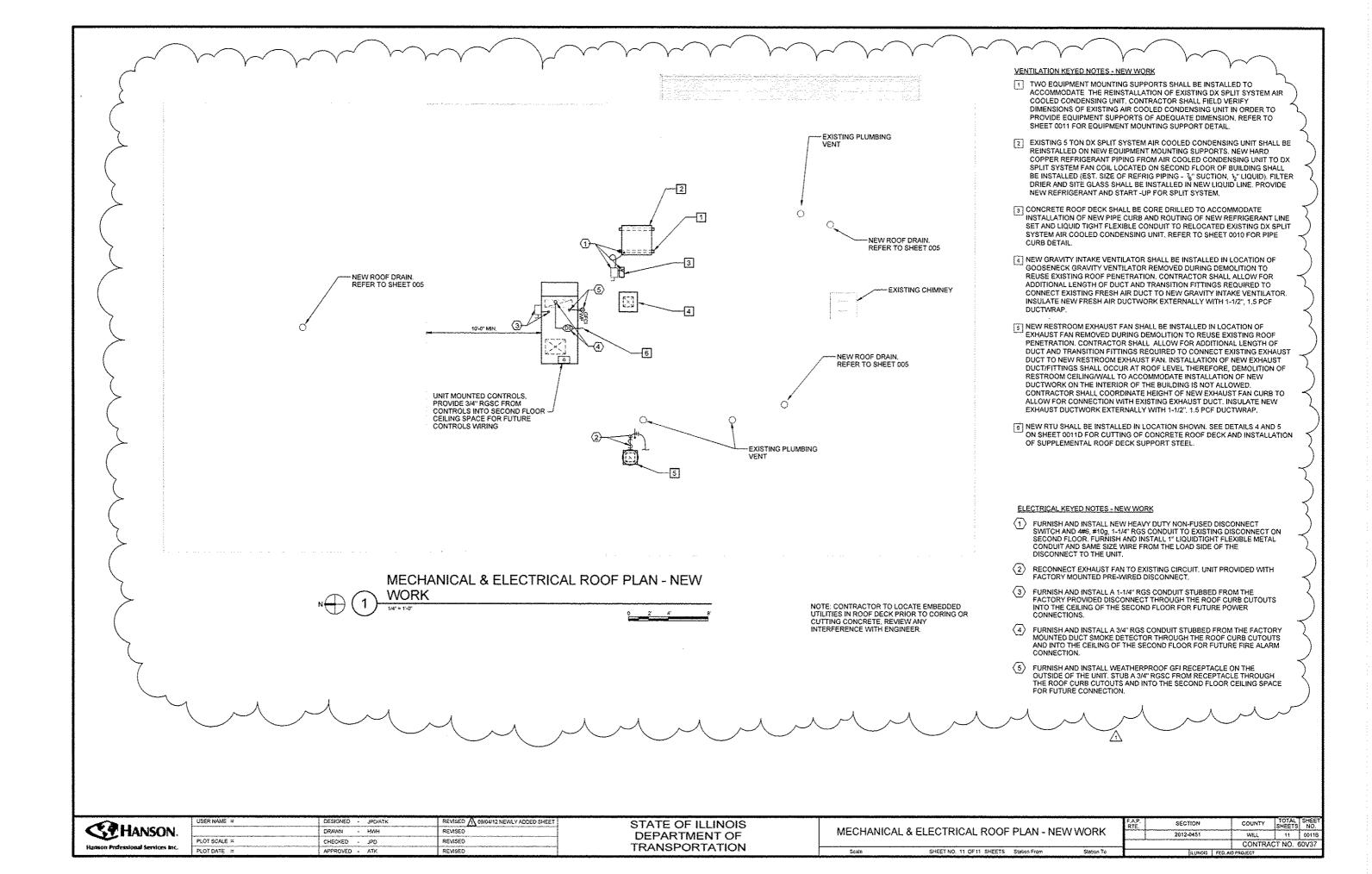
EW WORK DETAILS	

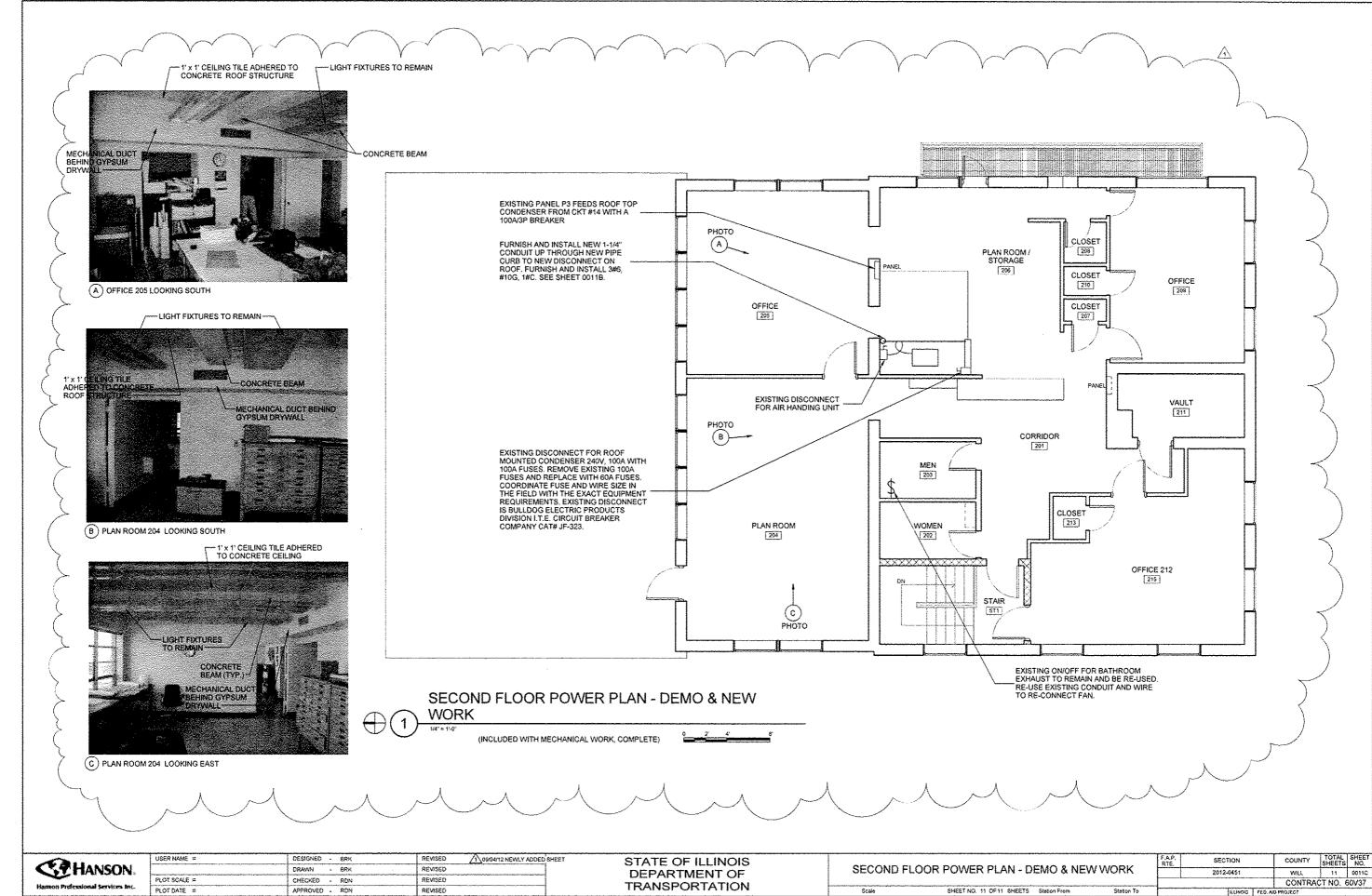
SHEET NO. 11 OF 11 SHEETS Station From

1	SECTION		COUNTY	TOTAL SHEETS	
T	2012-0451		Wilt	11	0011
			CONTRA	CT NO. 6	30V37
	ILLENO(3)	FEO. All	PROJECT		

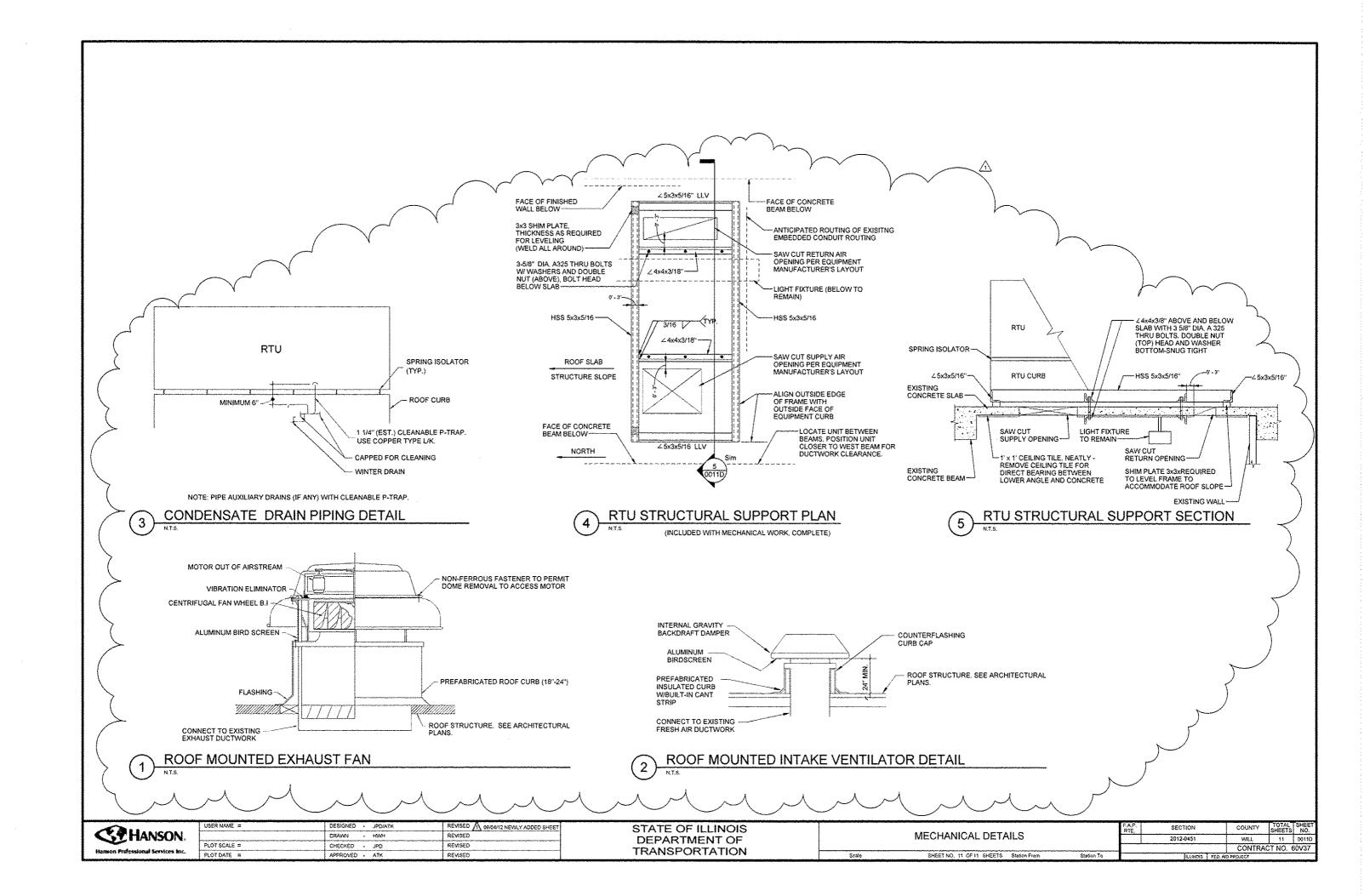
NE







			2.13000.00.00.00.00.00.00.00.00.00.00.00.00	
	DRAWN -	BRK .	REVISED	
PLOT SCALE ≃	CHECKED -	RDN	REVISED	
PLOT DATE =	APPROVED -	RDN	REVISED	



MARK		EF-1	
SERVIC	E	RESTROOM	
MANUFA	ACTURER/MODEL (BASIS OF DESIGN)	GREENHECK/G080-D	······································
LOCATIO	ON	ROOF	y manadistra di manamatan di Langua ya
CFM		275	······································
EXT S.P	<u></u>	0,4	
FAN RP	M (APPROX.)	1550	
MAX. BI-	IP .	0.06	
	HP/WATTS	1/15	
MOTOR	VOLT	120	
MUTUK	PHASE	1	
	RPM	1550	
ACCESS	ORIES	1 THRU 6	
REMAR	(S	1, 2	

ACCESSORIES:

- 1. PREFAB INSULATED ROOF CURB (18" H) WITH WELDED SEAM.
- 2. ALUMINUM BIRD SCREEN.
- 3. GRAVITY BACK DRAFT DAMPER
- 4. INTERNAL VIBRATION ISOLATION.
- 5. PREWIRED DISCONNECT.
- 6. SOLID STATE SPEED CONTROLLER, IF CONTROLLER IS SHIPPED LOOSE. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD INSTALLATION OF SPEED CONTROLLER AT ACCESSIBLE LOCATION

- 1. MAGNETIC STARTER/RELAY SHALL BE PROVIDED BY E.C. COORDINATE WITH EC FOR FAN
- 2. OTHER ACCEPTABLE MANUFACTURERS:
- COOK

OPERATION VIA LIGHT SWITCH IN RESTROOM

PENN

MPCAIL		{
SERVICE		INTAKE (EXISTING DX SPLIT SYSTEM)
LOCATION		ROOF
MODEL/M/	WUF (BASIS OF DESIGN)	FABRA/GREENHECK
CFM		200
MAX S.P. (N. W.G.)	0.05
THROAT	SIZE (LxW)	12'x12"
	VELOCITY (FPM)	200
4000	SIZE (LxW)	24°×22″
HOOD	VELOCITY (FPM)	100
DAMPER	and the contribution of the groups and contributions of the growth of the	BACKDRAFT
CUR8	**	ALUMINUM
ACCESSORIES		1, 2, 3, 4
REMARKS		1, 2, 3

ROOF VENTILATOR SCHEDULE

ACCESSORIES

- 1. ALUMINUM BIRD SCREEN.
- 12" TALL BASE.
- 3. PREFABRICATED INSULATED ROOF CURB (18"-24" H), MAINTAIN MINIMUM 24" CLEARANCE BETWEEN FINISHED ROOF AND BOTTOM OF INTAKE.
- 4. BACKDRAFT DAMPER.

- 1. BAKED ENAMEL FINISH, COLOR AS SPECIFIED. BY ARCHITECT
- 2. ONE INCH FACTORY APPLIED INSULATION TO UNDERSIDE OF HOOD.
- 3. OTHER ACCEPTABLE MANUFACTURERS:
 - PENN
 - CARNES

GENERAL NOTES (HEATING AND VENTILATION):

- SUPPLY AND RETURN DUCTS SHALL BE 20 GAUGE (FOR LONGEST SIDE L > 30") AND 22 GAUGE (FOR L ≤ 30").
- 2 SUPPLY AND RETURN DUCTS SHALL BE INTERNALLY LINED WITH 1" THICK/3.0 PCF ARMAFLEX AP COILFLEX CONFORMABLE ELASTOMERIC DUCT LINER OR EQUIVALENT.
- 3 SHORT SECTIONS OF SUPPLY AND RETURN DUCT AT FULL SIZE OF ROOFTOP UNIT CONNECTION DIMENSION SHALL BE ROUTED INTO THE INTERIOR OF THE BUILDING FROM THE ROOFTOP UNIT TO AN ELEVATION OF 6" BELOW THE ROOF DECK, OPEN ENDS OF SUPPLY AND RETURN DUCTS SHALL BE TERMINATED WITH 1/2"x1/2" HARDWARE CLOTH/MESH.
- PROVIDE TWO YEAR WARRANTY (PARTS AND LABOR, INCLUDING HOISTING COST) FOR ALL NEW MECHANICAL SYSTEM EQUIPMENT AND DEVICES, PROVIDE ADDITIONAL THREE YEARS (PARTS ONLY) WARRANTY FOR REFRIGERATION COMPRESSORS, ALL OTHER EXTENDED WARRANTIES FROM EQUIPMENT MANUFACTURER'S SHALL ALSO REMAIN IN FORCE AND BE PASSED ONTO USING AGENCY
- [5] RTU CONDENSATE DRAIN PIPING SHALL BE CONSTRUCTED OF TYPE L OR K COPPER AND BE FULL SIZE OF RTU DRAIN CONNECTION.
- 6 SUCTION LINE OF THE NEW HARD COPPER REFRIGERANT PIPING INSTALLED ON THE RELOCATED DX SPLIT SYSTEM AIR COOLED CONDENSING UNIT SHALL BE INSULATED WITH 3/4" ARMAFLEX. INSULATED PIPING EXPOSED ON THE ROOF TO AMBIENT CONDITIONS SHALL BE COATED WITH WEATHER RESISTANT ARMAFINISH PAINT AND HAVE .016" THICK ALUMINUM JACKETING.

- 1 WARRANTY SHALL COMMENCE 6 MONTHS AFTER FACTORY SHIP DATE OR AT START-UP OF RTU, WHICHEVER IS EARLIER.
- [2] START-UP OF RTU SHALL NOT BE INCLUDED UNDER THIS PROJECT. INTENT IS TO INCLUDE THIS ITEM DURING NEXT PHASE.
- 3 TEST AND BALANCE FOR RTU SYSTEM SHALL NOT BE INCLUDED IN THIS PROJECT. INTENT IS TO INCLUDE THIS ITEM DURING NEXT PHASE.



USER NAME =	DESIGNED .	JPD/ATK	REVISED A 09/04/12 NEWLY ADDED SHEET	Ī
	DRAWN -	HWH	REVISED	
PLOT SCALE =	CHECKED .	JPD	REVISED	
PLOT DATE =	APPROVED .	ATK	REVISED	

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

EXHAUST FAN & VENTILATOR SCHEDULES

SHEET NO. 11 OF 11 SHEETS Station From

TOTAL SHE SHEETS NO 2012-0451 WILL 11 0011E CONTRACT NO. 60V37

ROOF TOP UNIT SCHEDULE

		,				UNIT	-		SUPP	LY AIR FAI	4	EXHI	FAN	of the state of th	COOLING (95	o°F AMB)		MIN O.A.	MIN O.A. HEAT PU				FILTE	R	ELE	CTRICAL		
MARI	K	ACCEPTABLE MANUF.	MODEL	CONFIG.	SERVICE	LOCATION	SYSTEM TYPE	ł ł	P (NOT UP R	— MOT		CFM	ESP	EAT DB/WB°F	LAT DB/WB°F (IN SUPPLY DUCT)	TOTAL MBH	SENS MBH	CFM (FOR UNIT SIZING ONLY)	MBH AT 47°F	HEATING	TYPE	THICH	EFFCY	V/C/HZ	MCA	OCP ACCESSOR	ES NOTES	
		AAON	RQ-005						and								200											
RTU-1 (HEAT	PUMP)	VALENT	VPRX-110-5J	DOWN FLOW	CONTROL ROOM	ROOF	SINGLE ZONE	1950	0.5 0	.25 2.	0	1800	.25	78/65	57/55	57	46	200	58	NO GAS HEAT FOR SPACE WINTER HTG IN THIS UNIT	T.A.	2"	30%	208/3/60	44	50 1-24	1-10	

ACCESSORIES

- 1. DRY BULB ECONOMIZER WITH 100% MODULATION AND POWER EXHAUST.
- 2. ULTRA LOW LEAKAGE TYPE ECONOMIZER DAMPERS.
- EXTENDED HEIGHT FULL PERIMETER, SLOPED, INSULATED ROOF CURB (14"-18" HIGH). SLOPE TO BE DETERMINED BY CONTRACTOR.
- 4. PRE-WIRED ELECTRICAL DISCONNECT/S.
- ANTISHORT CYCLE FOR COMPRESSOR AND TIME DELAY BETWEEN COMPRESSOR STARTS.
- 6. TWO EXTRA SETS OF AIR FILTERS.
- 7. UNIT MOUNTED INLET HOOD OR MOISTURE ELIMINATOR WITH BIRD SCREEN.
- 8. HIGH EFFICIENCY MOTORS, VFD RATED.
- TERMINAL CONTACTS FOR WIRING RETURN SMOKE DETECTOR IN RTU SAFETY CIRCUIT. SMOKE DETECTOR SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR.
- FURNISH CO 2 SENSOR AND CONTROLLER (SENSORS MOUNTED IN SPACE) FOR CONTROLLING OUTDOOR AIR DAMPER, CO2 SENSOR MAY BE MOUNTED IN RA DUCT.
- 11. HOT GAS REHEAT (FOR HUMIDITY CONTROL).
- AVERAGING TYPE LOW LIMIT CONTROL STAT WITH MANUAL RESET FOR DISCHARGE AIR TEMP. (40° ADJ).
- 13. PHASE AND BROWN OUT PROTECTION WITH AUTORESET FEATURE.
- 14. DOUBLE WALL CONSTRUCTION. USE MINIMUM 1"71.5 PCF INSULATION.

ACCESSORIES

- 15. SLOPED STAINLESS STEEL OR POLYCARBONATE DRAIN PAN.
- 16. SPRING TYPE ANTIVIBRATION RAIL (2" DEFLECTION) UNDER ENTIRE UNIT.
- HUMIDITY CONTROL (IN SUMMER) SHALL BE EFFECTED VIA RH SENSOR IN RETURN AIR SYSTEM. CO2 SENSOR MAY ALSO BE MOUNTED IN RETURN AIR SYSTEM.
- 18. EXTENDED GREASE LINES.
- 19. HINGED SERVICE PANELS.
- 20. HAIL GUARD FOR CONDENSER COIL.
- 21. SAFETY GRATES OVER SUPPLY AND RETURN OPENINGS.
- 22. THROUGH THE BASE ELECTRICAL CONNECTION IS PREFERRED, COORDINATE THIS ITEM WITH ELECTRICAL CONTRACTOR.
- 23. PROGRAMMABLE (7 DAY) WITH AUTO CHANGE OVER, PROVIDE LOCKABLE COVER.
- 24. PROVIDE ELECTRIC HEAT (EST 7.5-10 KW, MULTISTAGE OR SCR CONTROLLED) FOR OPERATION ONLY DURING DEFROST CYCLE TO MAINTAIN NEUTRAL AIR TEMPERATURE.

NOTES:

- ESP INCLUDES SUPPLY AND RETURN DUCT. LOSSES AT CURB AND WITHIN THE UNIT SHALL BE FACTORED IN BY RTU MANUFACTURER.
- RTU SHALL BE EQUIPPED WITH FACTORY FURNISHED DDC CONTROLS FOR ECONOMIZER, BUILDING PRESSURE, CO2 BASED CONTROL OF FRESH AIR, OA/RA/RAH/SA SENSORS, PROGRAMMABLE DAT RESET CONTROL, COMPRESSOR STAGING, ETC.
- LOCATE CO2 SENSOR IN OCCUPIED SPACE OR IN RA DUCT, CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD INSTALLATION OF CO2 SENSOR AND CONTROLLER.
- CONTRACTOR SHALL INCLUDE COST FOR CONDUIT AND WIRING BETWEEN ALL FIELD INSTALLED DEVICES AND THE RTU.
- NEW DUCT MOUNTED SMOKE DETECTOR SHALL BE WIRED INTO FAN SAFETY CIRCUIT. DETECTOR SHALL BE FIELD FURNISHED AND WIRED BY ELECTRICAL CONTRACTOR. SEE ELECTRICAL DRAWINGS. PROVIDE DETECTOR ON MAIN RETURN OF RTU.
- 6. EQUIPMENT MANUFACTURERS MUST MEET SCHEDULED PERFORMANCE CRITERIA.
- 7. ELECTRICAL DISCONNECT/S SHALL BE PROVIDED BY RTU MANUFACTURER.
- 8. IF MANUFACTURER'S EQUIPMENT REQUIRES A SEPARATE POWER FEED FOR DEFROST HEATER, CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THIS FEATURE (INCLUDING SEPARATE DISCONNECT FOR HEATER).
- SINCE START-UP OF RTU IS DEFERRED TO NEXT PHASE OF PROJECT, DEVICES SUCH AS THERMOSTATS, ETC. THAT ARE NOT INSTALLED SHALL BE TURNED OVER TO OWNER'S REPRESENTATIVE
- WARRANTY SHALL COMMENCE 6 MONTHS AFTER FACTORY SHIP DATE OR AT START-UP OF RTU, WHICHEVER IS EARLIER. SEE GENERAL NOTE #4 ON SHEET 0011E FOR EXTENDED WARRANTY.



 USER NAME =
 DESIGNED - JPD/ATK
 REVISED ⚠ 09/04/12 NEWLY ADDED SHEE

 DRAWN - HWH
 REVISED

 PLOT SCALE =
 CHECKED - JPD REVISED

 PLOT DATE =
 APPROVED - ATK
 REVISED

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

ROOF TOP UNIT SCHEDULE
SHEET NO. 11 OF 11 SHEETS Station From

LP SECTION COUNTY TOTAL SHEE SHEETS NO.

2012-0451 WILL 11 00111

CONTRACT NO. 60V37