STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	1	143
F.A. NO.	TEA-T037 (301)			

INDEX OF SHEETS

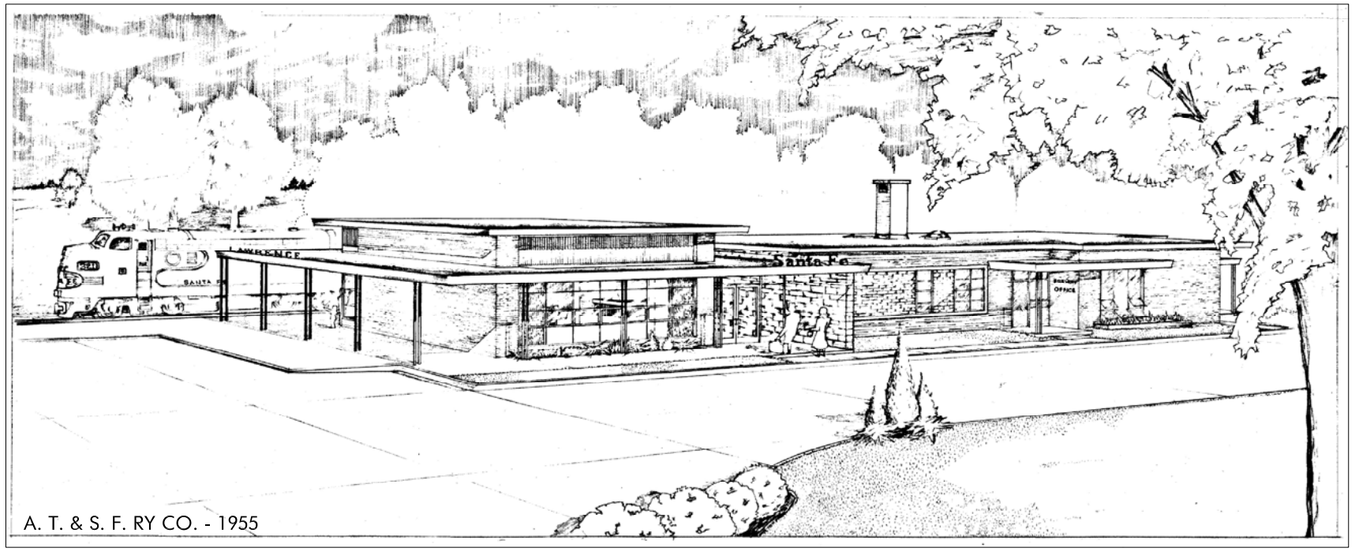
STATE OF KANSAS

DEPARTMENT OF TRANSPORTATION
PLAN AND PROFILE OF PROPOSED

23 TE-0373-01

SANTA FE STATION – PRESERVATION PROJECT
LAWRENCE, KANSAS DOUGLAS COUNTY

SANTA FE STATION



PRESERVATION PROJECT

413 E 7TH STREET, LAWRENCE KS July 15, 2015

PROJECT LOCATION

PLANS PREPARED BY:

ARCHITECT
HERNLY ASSOCIATES, INC.
920 Massachusetts St. Suite 2
Lawrence, KS 66044
P) 785-749-5806
F) 785-749-1515

MASONRY/STRUCTURAL CONSULTANT
DGM CONSULTANTS, PA
10251 Goddard St.
Overland Park, KS 66241
P) 913-894-2048
F) 913-894-2225

MECHANICAL ENGINEER
HUGHES CONSULTING ENGINEERING, PA
714 Vermont St. Suite 200
Lawrence, KS 66044
P) 785-842-2292
F) 785-842-2492

CIVIL ENGINEER
BARTLETT & WEST
544 Columbia St.
Lawrence, KS 66049
P) 785-749-9452

CONVENTIONAL SIGNS

COUNTY LINE	CENTER LINE OF PROJECT
CITY LIMITS	TERRACE
STATE OR NATIONAL LINE	CULVERTS
TOWNSHIP , SECTION or GRANT LINE	DROP INLET & STORM SEWER
PROPERT LINE	ACCESS CONTROL
HIGHWAY FENCE	POWER POLE
EXISTING FENCE	TELEPHONE POLE
GUARD FENCE	MARSH
CONSTRUCTION LIMITS	HEDGE
RIGHT OF WAY LINE	TREES
TRAVELED WAY	PROFILE ELEVATION
RAILROADS	STREAM OR CREEK

GROSS LENGTH OF PROJECT	FT.	
EXCEPTIONS	FT.	
ADDITIONS	FT.	
NET LENGTH OF PROJECT	FT.	MILES
NET LENGTH OF BRIDGES	FT.	MILES
NET LENGTH OF ROAD	FT.	MILES

RECOM. FOR APPROVAL–DATE

COUNTY OFFICIAL

KANSAS DEPARTMENT OF TRANSPORTATION

DATE
BY
SURVEYED
PLOTTED
INKED
DESIGNED
SQUAD

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(108) C.5.1 EROSION CONTROL NOTES
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(110) C.6.1 LANDSCAPE NOTES
(111) C.6.2 LANDSCAPE PLAN
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(113) C.7.2 TRAFFIC CONTROL PLAN
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(115) C.8.1 SITE DETAILS
(116) C.8.2 SITE DETAILS
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(130) C.10.5 KDOT DETAILS - TEMPORARY EROSION AND POLLUTION CONTROL
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(133) C.10.8 KDOT DETAILS - TEMPORARY EROSION AND POLLUTION CONTROL
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(135) C.10.10 KDOT DETAILS - ROADSIDE IMPROVEMENT PLANTING DETAILS
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(34) 4.A.0 - REFLECTED CEILING PLAN - BATHROOMS
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(38) 5.A.1 - WALL SECTION, JAMB, HEAD, CONCRETE DETAILS
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(57) M.A.3 - MECHANICAL DETAILS
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(72) P.A.3 - DOMESTIC SUPPLY PLAN
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(76) P.A.7 - WATER CLOSET SECTION
(77) P.A.8 - URINAL SECTION
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(47) 6.E.0 - EXTERIOR PHOTO KEY
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(45) 5.W.0 - STORM WINDOW SECTION
(46) 5.W.1 - ROOF INSULATION DETAILS (ALTERNATE #2)

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(59) M.2.0 - MECHANICAL DEMOLITION PLAN EAST & GEN. NOTES
(60) M.3.0 - MECHANICAL & VENTILATION SCHEDULES
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(63) M.6.0 - MECHANICAL FLOOR PLAN WEST
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(66) M.9.0 - SITE MAP/ GSHP WELL LOCATIONS
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(81) E.2.0 - ELECTRICAL DEMOLITION PLAN EAST
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(84) E.5.0 - LIGHTING SCHEDULE & BOILER ROOM SECTIONS
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(86) E.7.0 - LIGHTING LAYOUT EAST
(87) E.8.0 - POWER LAYOUT WEST
(88) E.9.0 - POWER LAYOUT EAST
(89) E.10.0 - PHOTOVOLTAIC PANEL LAYOUT

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(113) C.7.2 TRAFFIC CONTROL PLAN
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(117) C.8.3 SITE DETAILS
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(127) C.10.2 KDOT DETAILS - TEMPORARY EROSION AND POLLUTION CONTROL
(128) C.10.3 KDOT DETAILS - TEMPORARY EROSION AND POLLUTION CONTROL
(129) C.10.4 KDOT DETAILS - TEMPORARY EROSION AND POLLUTION CONTROL
(130)C.10.5 KDOT DETAILS - TEMPORARY EROSION AND POLLUTION CONTROL
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(142) C.12.6 KDOT - DETAILS FOR "TWORKS" SIGNS
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KANSAS DEPARTMENT OF TRANSPORTATION

SHEET INDEX

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FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

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F.A. NO.				

DATE
BY
SURVEYED
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DESIGNED
SQUAD

1 EXISTING SITE - AERIAL PHOTO
NTS

KANSAS DEPARTMENT OF TRANSPORTATION

EXISTING SITE

0.0

FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	4	143
F.A. NO.				

Note:
This schematic Site Design drawing was prepared for and included in the Historic Structure Report dated December 15, 2009 for the Santa Fe Station. Its inclusion here is for reference only and is not intended to depict any specific Work included in this Preservation Project. Construction Documents for site improvements are depicted elsewhere in these Construction Documents.

1 SCHEMATIC SITE DESIGN
NTS

KANSAS DEPARTMENT OF TRANSPORTATION

SCHEMATIC SITE DESIGN
0.1

FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

DATE
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SQUAD

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F.A. NO.				

DEMOLITION NOTES:

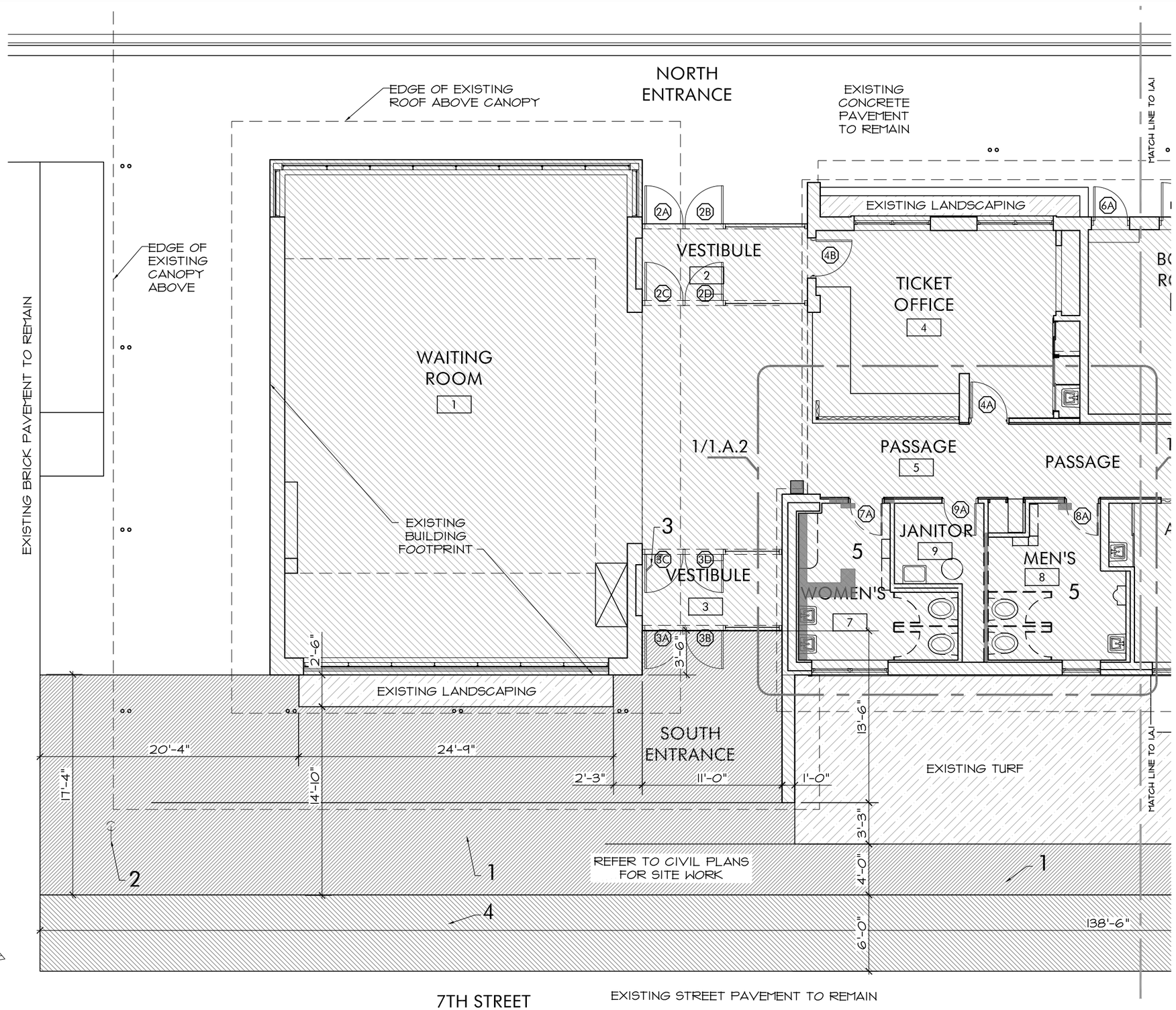
1. Remove concrete sidewalk per Civil drawings. (Bid as part of Site Improvements.)

2. Remove "No Parking" sign. (Bid as part of Site Improvements.)

3. Remove door holder and salvage for reuse.

4. Remove street pavement per Civil drawings. (Bid as part of Site Improvements.)

5. Refer to drawing 1/1.A.2 for demolition at Bathrooms 7 & 8.



1 DEMOLITION PLAN - WEST PORTION

1/8" = 1'-0"

KANSAS DEPARTMENT OF TRANSPORTATION

DEMOLITION PLAN – WEST PORTION

1.A.0

FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

DATE
BY
SURVEYED
PLOTTED
INKED
DESIGNED
SQUAD

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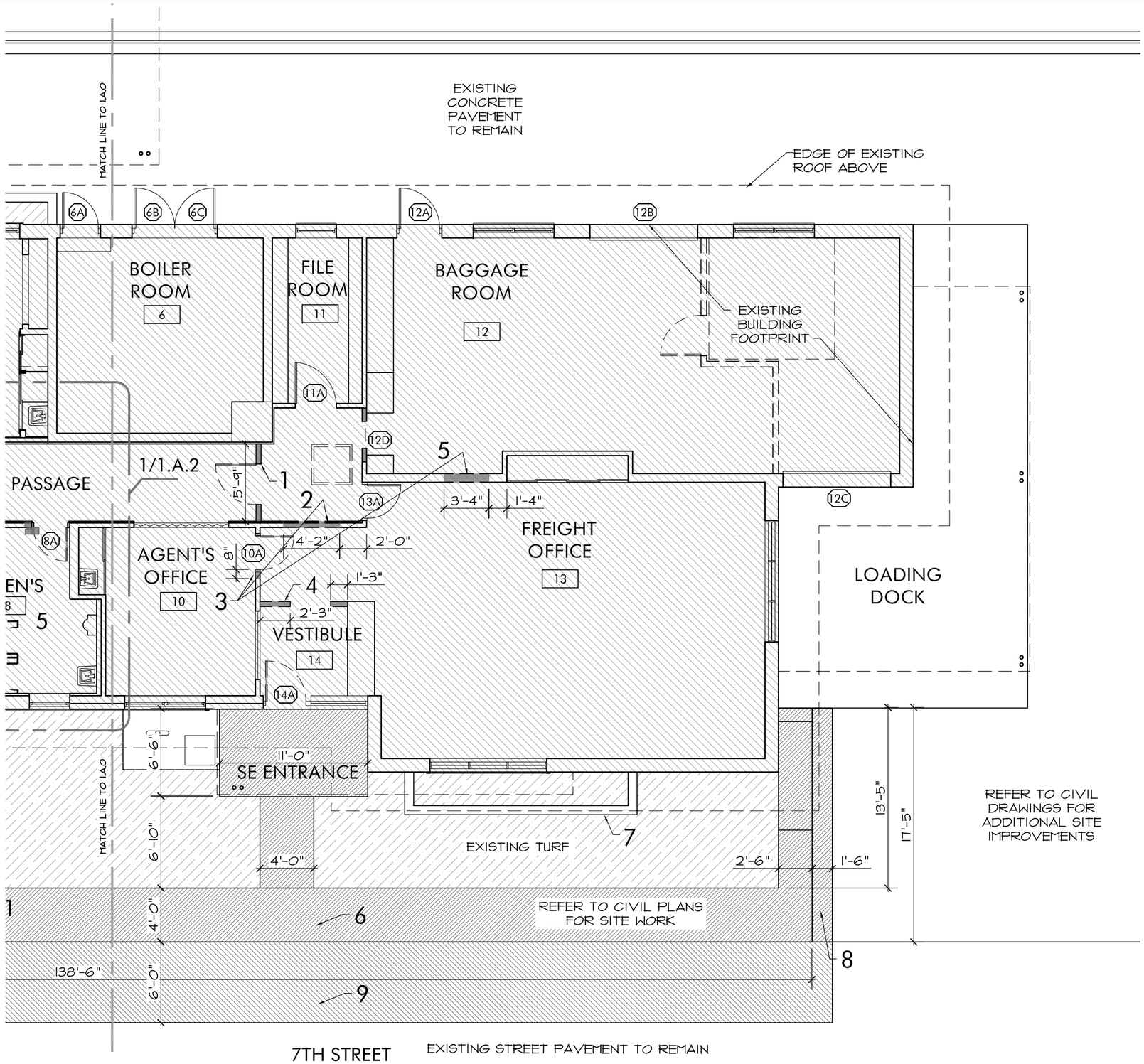
KANSAS	23 TE-0373-01	2014	6	143
F.A. NO.				



DEMOLITION NOTES:

1. Remove entire wood framed wall and door.

2. Remove and salvage wood paneling and trim on "Passage" side of wall. Cut and remove structural clay tile and plaster wall for 4'-2" wide x 6'-10" Tall R.O. Provide steel angle ledger per 2/5.A.1.

3. Remove wood door and metal frame; salvage all door hardware components. Cut and remove CMU and plaster wall for 3'-2" wide x 7'-4" tall R.O. Provide steel angle ledger at head per 1/5.A.2.

4. Remove partial height wall.

5. Cut and remove CMU and plaster wall for 3'-2" wide and 7'-4" tall R.O. Provide steel angle ledger at head per 2/5.A.2.

6. Remove concrete sidewalk per Civil drawings. (Bid as part of Site Improvements.)

7. Remove railroad tie planter. (Bid as part of Site Improvements.)

8. Remove concrete pavement per Civil drawings. (Bid as part of Site Improvements.)

9. Remove street pavement per Civil drawings. (Bid as part of Site Improvements.)

DATE | BY

SURVEYED | PLOTTED | INKED | DESIGNED | SQUAD

KANSAS DEPARTMENT OF TRANSPORTATION

DEMOLITION PLAN – EAST PORTION

1.A.1

FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

1 DEMOLITION PLAN - EAST PORTION

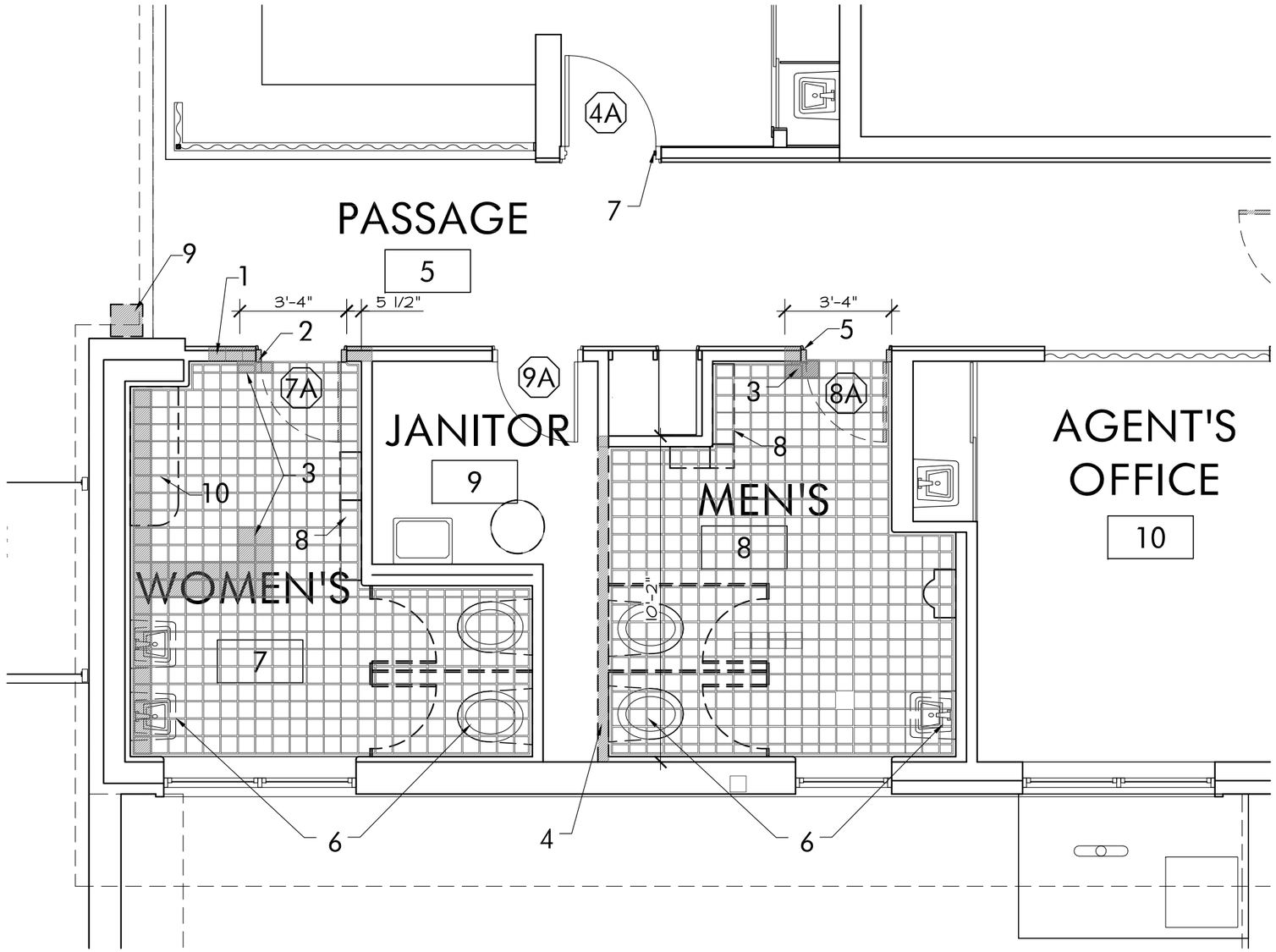
1/8" = 1'-0"

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	7	143
F.A. NO.				

DATE

BY

SURVEYED
PLOTTED
INKED
DESIGNED
SQUAD



PLAN NORTH

TRUE NORTH

1 DEMOLITION PLAN - BATHROOMS 7 & 8

1/4" = 1'-0"

DEMOLITION NOTES:

1. Remove 1-5/8" thick structural clay tile at upper portion of wall (re: 2/3.A.0.)

2. Remove and salvage wood paneling and trim around door on "Passage" side of wall (remove paneling to closest vertical joint). Remove wood door and metal frame; salvage all door hardware components. Cut and remove structural clay tile wall for 3'-2" wide x 6'-10" tall R.O. Provide steel angle ledger at head per 2/5.A.1.

3. Remove floor tiles as shown (43 full and partial tiles total).

4. Remove structural clay tile wall as shown; salvage structural clay tiles for reuse.

5. Remove and salvage wood paneling and trim around door on "Passage" side of wall (remove paneling to closest vertical joint). Remove wood door and metal frame; salvage all door hardware components. Cut and remove structural clay tile wall for 3'-2" wide x 6'-10" tall R.O. Provide steel angle ledger at head per 2/5.A.1.

6. Remove existing fixtures in both bathrooms (lavatories, toilets, urinals); salvage lavatories for reuse.

7. Cut and remove door stop on east jamb up to 34" above finish floor to make door width ADA accessible. Weld metal patch into cut jamb.

8. Remove existing fan coil unit, wood framed chase, and related piping.

9. Remove existing water fountain.

10. Remove and salvage existing shelf and hardware.

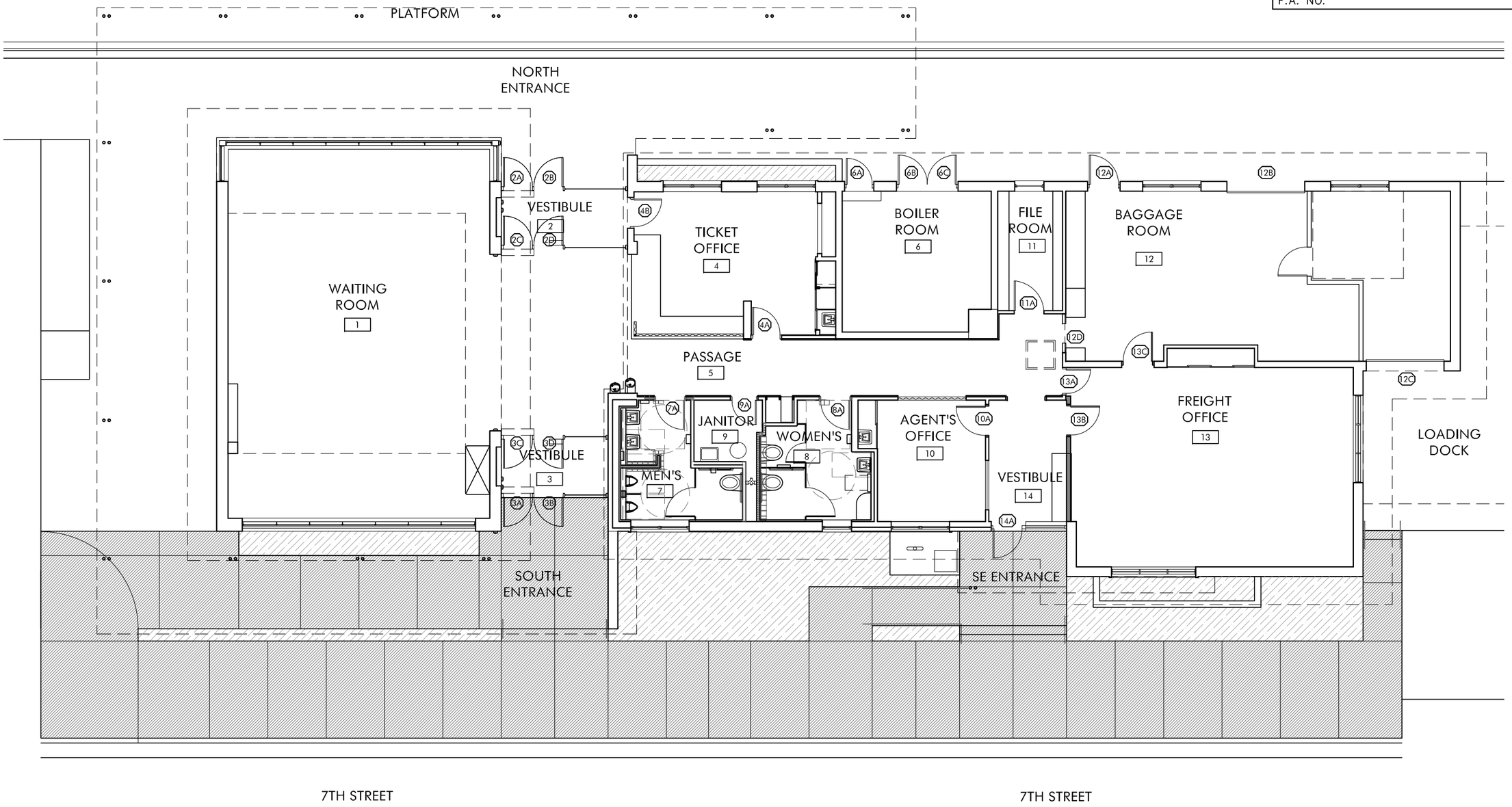
KANSAS DEPARTMENT OF TRANSPORTATION

DEMOLITION PLAN – BATHROOMS 7 & 8

1.A.2

FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	8	143
F.A. NO.				



TRUE NORTH

PLAN NORTH

1 FLOOR PLAN OVERVIEW

3/32" = 1'-0"

DATE	BY
SURVEYED	
PLOTTED	
INKED	
DESIGNED	
SQUAD	

KANSAS DEPARTMENT OF TRANSPORTATION

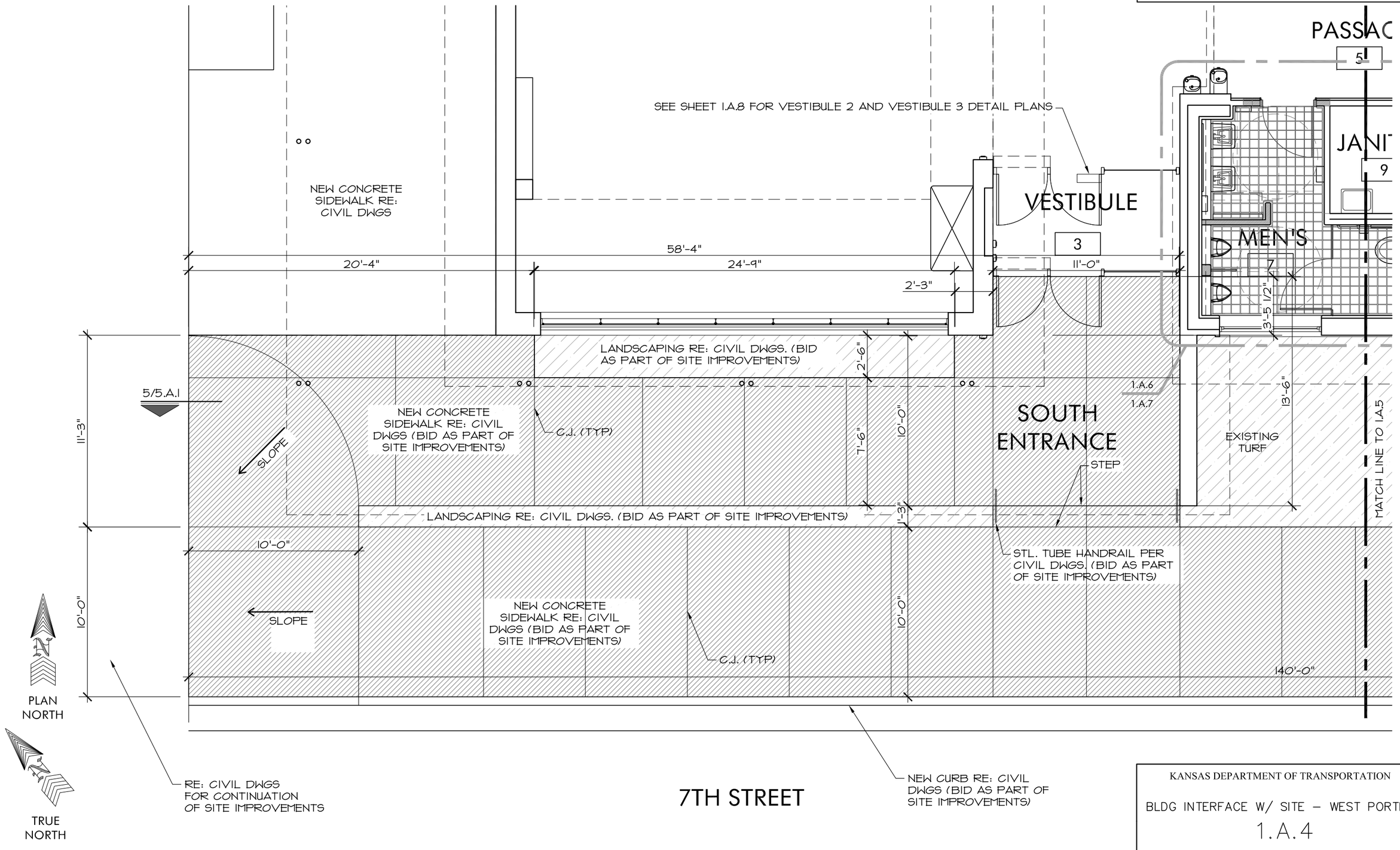
FLOOR PLAN OVERVIEW

1.A.3

FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	9	143
F.A. NO.				

DATE
BY
SURVEYED
PLOTTED
INKED
DESIGNED
SQUAD



1 BUILDING INTERFACE WITH WEST PORTION OF SITE RE: CIVIL DWGS. FOR SITE DTLS.

3/16" = 1'-0"

KANSAS DEPARTMENT OF TRANSPORTATION

BLDG INTERFACE W/ SITE – WEST PORTION

1.A.4

FHWA APPROVAL XX-XX-XX		APP'D	XXX
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	10	143
F.A. NO.				

SSAGE

5

ANITOR

9

WOMEN'S

8

AGENT'S OFFICE

10

1.A.6

1.A.7

EXISTING METER PIT TO REMAIN

VESTIBULE

14

RE: 1.A.9 FOR INTERIOR WORK THIS AREA

FREIGHT OFFICE

13

LOADING DOCK

NEW CONCRETE SIDEWALK RE: CIVIL DWGS. (BID AS PART OF SITE IMPROVEMENTS)

STL. TUBE HANDRAIL (BID AS PART OF SITE IMPROVEMENTS)

NEW BRICK PLANTER TO MATCH EXISTING BRICK PLANTER ON NORTH SIDE OF BUILDING (BID AS PART OF EXTERIOR RESTORATION)

6/5.A.1

MATCH LINE TO 1.A.4

5'-8 1/2"

5'-7"

10'-0"

6'-6"

9'-0"

11'-0"

SE ENTRANCE

4'-0"

1:12

2%

NEW CONC. S/W (BID AS PART OF SITE IMPROVEMENTS)

9'-8 1/2"

1'-7"

4/5.A.1

STL TUBE HANDRAIL PER CIVIL DWGS. (BID AS PART OF SITE IMPROVEMENTS)

STL. TUBE ADA HANDRAIL PER CIVIL DWGS. (BID AS PART OF SITE IMPROVEMENTS)

(2) CONC. STEPS

NEW CONCRETE SIDEWALK RE: CIVIL DWGS. (BID AS PART OF SITE IMPROVEMENTS)

C.J. (TYP)

11'-4 1/2"

21'-4 1/2"

4'-0"

5/5.A.1

EXIST. DRIVE TO REMAIN

10'-0"

RE: CIVIL DWGS FOR CONTINUATION OF SITE IMPROVEMENTS

NEW CURB RE: CIVIL DWGS. (BID AS PART OF SITE IMPROVEMENTS)

7TH STREET

PLAN NORTH

TRUE NORTH

DATE

BY

SURVEYED

PLOTTED

INKED

DESIGNED

SQUAD

1 BUILDING INTERFACE WITH EAST PORTION OF SITE RE: CIVIL DWGS FOR DTLS

3/16" = 1'-0"

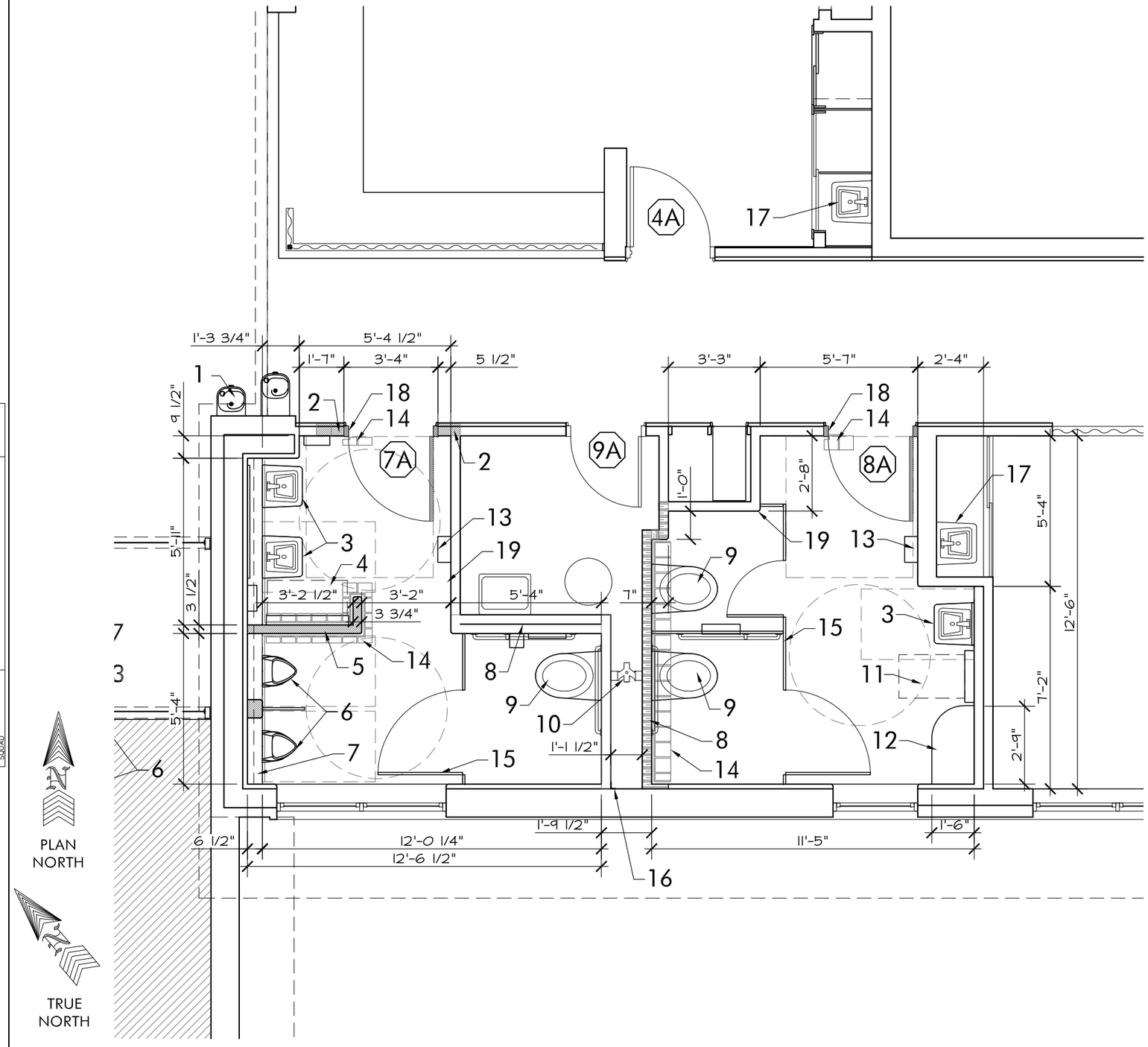
KANSAS DEPARTMENT OF TRANSPORTATION

BLDG INTERFACE W/ SITE – EAST PORTION

1.A.5

FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	11	143
F.A. NO.				



PLAN NORTH

TRUE NORTH

DATE

BY

SURVEYED
PLOTTED
INKED
DESIGNED
SQUAD

NOTES:

1. Install ADA bi-level drinking fountain.

2. Replace exist. 1-5/8" thick structural clay tiles at upper portion of wall with salvaged 3-5/8" structural clay tiles; approximately 22 full and partial tiles (Re: 2/3.A.0).

3. Install salvaged lavatories.

4. Install wall-hung horizontal diapering station.

5. Construct structural clay tile wall, 6'-2 3/8" A.F.F. -- See details on sheet 5.A.0.

6. Install wall-hung urinal.

7. Construct structural clay tile wall, 3'-3 1/8" A.F.F. -- See details on sheet 5.A.0.

8. Construct structural clay tile wall, -- See sections on sheet 5.A.0.

9. Install wall-hung ADA toilet

10. Install back-to-back siphon jet

11. Install wall-hung certical diapering station

12. Install salvaged shelf with salvaged hardware; resize as shown

13. Install wall-hung automatic hand dryer.

14. Install ceramic floor tiles to match originals.

15. Install toilet partitions in accordance with ADA standards.

16. Provide steel angle brace at south end of existing structural clay tile wall; Attach #353 de-bonded shear anchors to ext. wall & embed into every third bed joint of exist. tile wall; See detail 3/5.A.2.

17. (2) Existing ceramic wall-hung lavatories; Clear drain lines for proper operation.

18. See head and jamb details 2/5.A.1 at structural clay tile walls.

19. Point mortar joints where anchoring devices are removed with fan coil unit, piping chase, and piping.

1 FLOOR PLAN - TICKET OFFICE, BATHROOM 7 & BATHROOM 8

1/4" = 1'-0"

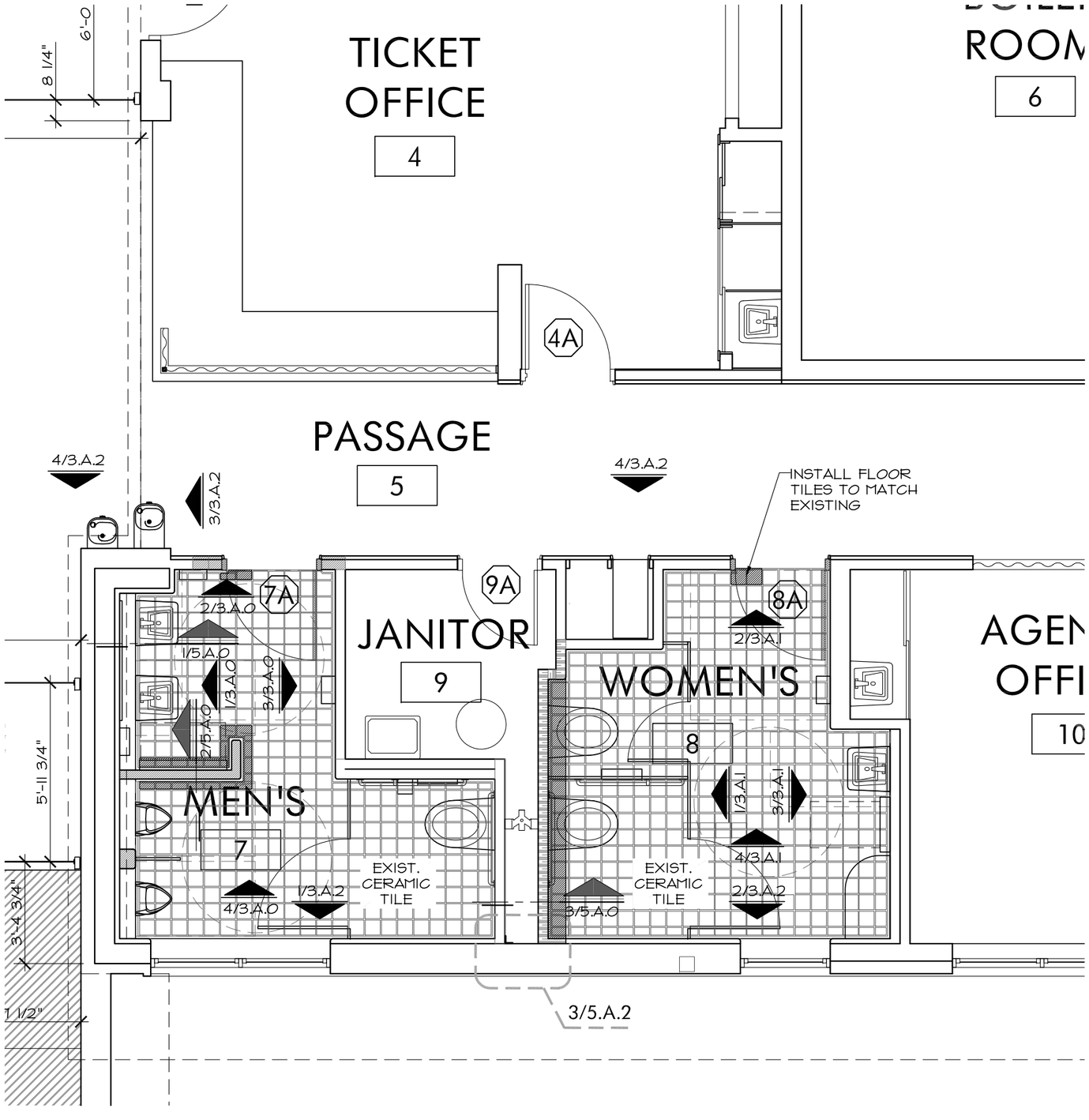
KANSAS DEPARTMENT OF TRANSPORTATION

FLOOR PLAN – TICKET OFFICE, BATHROOMS

1.A.6

FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	12	143
F.A. NO.				



PLAN NORTH

TRUE NORTH

DATE | BY | SURVEYED | PLOTTED | INKED | DESIGNED | SQUAD

1 FLOOR PLAN - TICKET OFFICE, BATHROOM 7, & BATHROOM 8

1/4" = 1'-0"

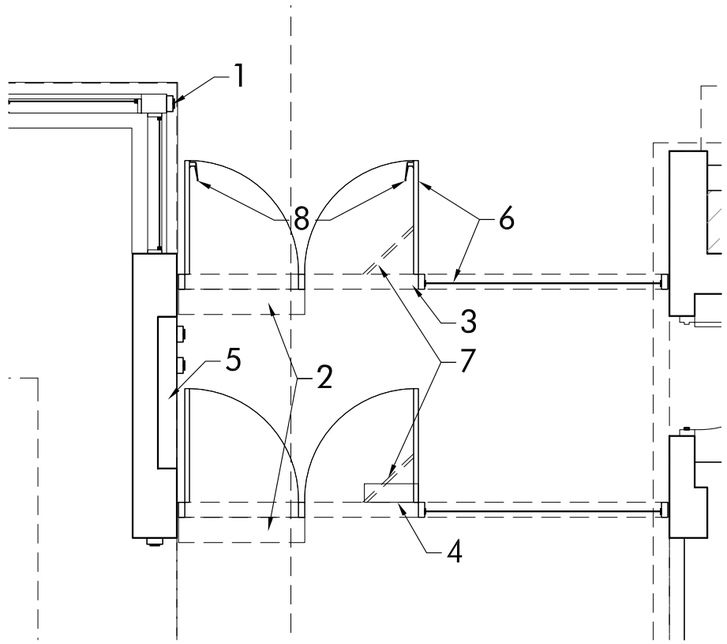
KANSAS DEPARTMENT OF TRANSPORTATION

FLOOR PLAN – TICKET OFFICE, BATHROOMS

1.A.7

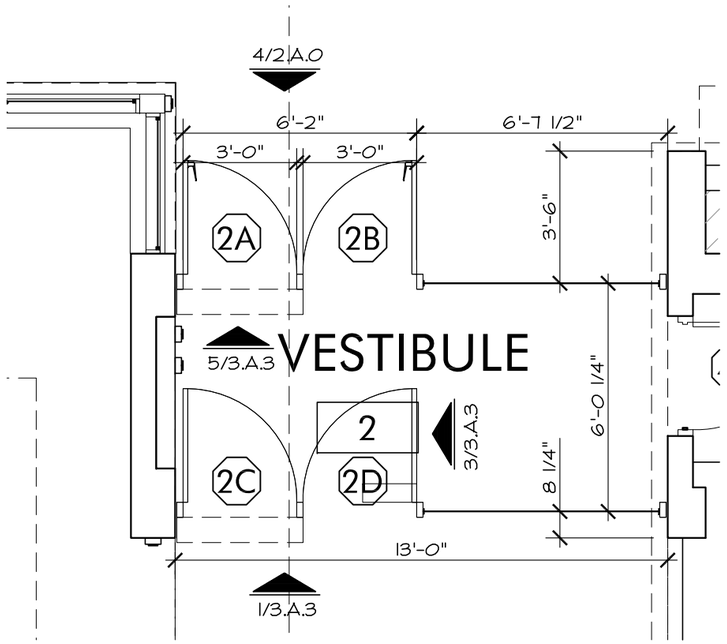
FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	13	143
F.A. NO.				



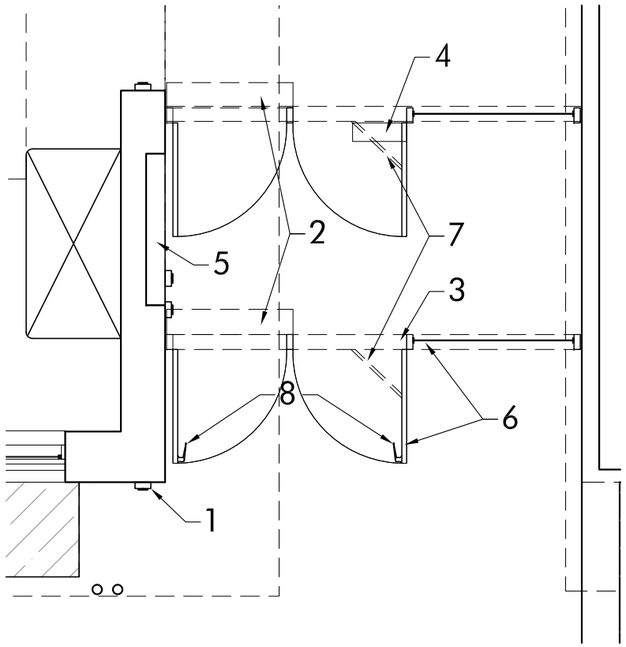
1 FLOOR PLAN VESTIBULE 2

1/4" = 1'-0"



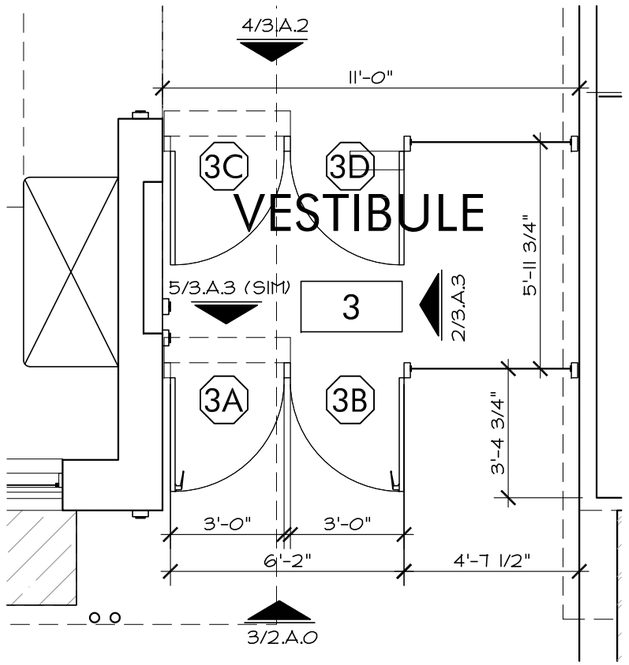
2 FLOOR PLAN VESTIBULE 2

1/4" = 1'-0"



3 FLOOR PLAN VESTIBULE 3

1/4" = 1'-0"



4 FLOOR PLAN VESTIBULE 3

1/4" = 1'-0"

NOTES:

1. Install wireless ADA door operator wall plates (4) @ each vestibule).

2. Install (4) low-energy overhead ADA door operators.

3. Install concealed overhead door closer.

4. Replace existing in-floor door closer with new in-floor door closer in existing enclosure; (1) at North Vestibule, (1) at South Vestibule); other existing in-floor door closer enclosures to remain

5. Existing radiator to remain; Remove piping.

6. Existing aluminum storefront and doors to remain. Replace hardware as indicated in schedule. Modify push bars for incorporation of new panic hardware. See elevations 3/2.A.0, 4/2.A.0, and 5/3.A.3.

7. Install (1) salvaged overhead door holder; Provide (3) overhead door holders to match salvaged holder.

8. Install deadlatch paddle device w/ salvaged push handles attached to paddle (Re: 5/3.A.3).

Other Notes - Replace remaining deadbolts with dummy cylinders; Remove existing overhead door closers. Cover screw holes in aluminum storefront framing members & doors with sheet aluminum to match existing finish.

KANSAS DEPARTMENT OF TRANSPORTATION

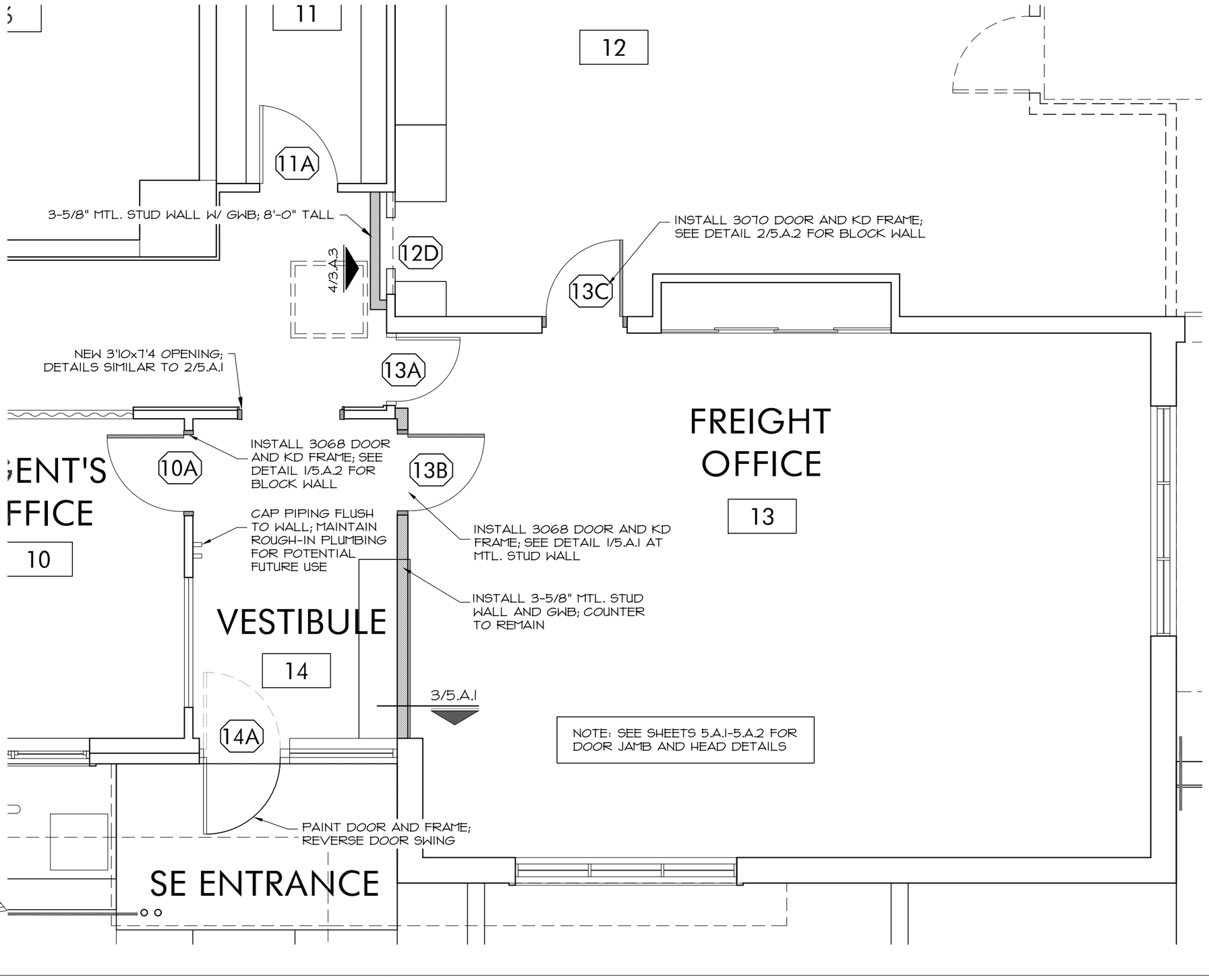
FLOOR PLAN – VESTIBULES 2 & 3

1.A.8

FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

DATE	BY		
		SURVEYED	
		PLOTTED	
		INKED	
		DESIGNED	
		SQUAD	

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	14	143
F.A. NO.				



1 FLOOR PLAN FREIGHT OFFICE & VESTIBULE 14

1/4" = 1'-0"

DATE | BY | SURVEYED | PLOTTED | INKED | DESIGNED | SQUAD

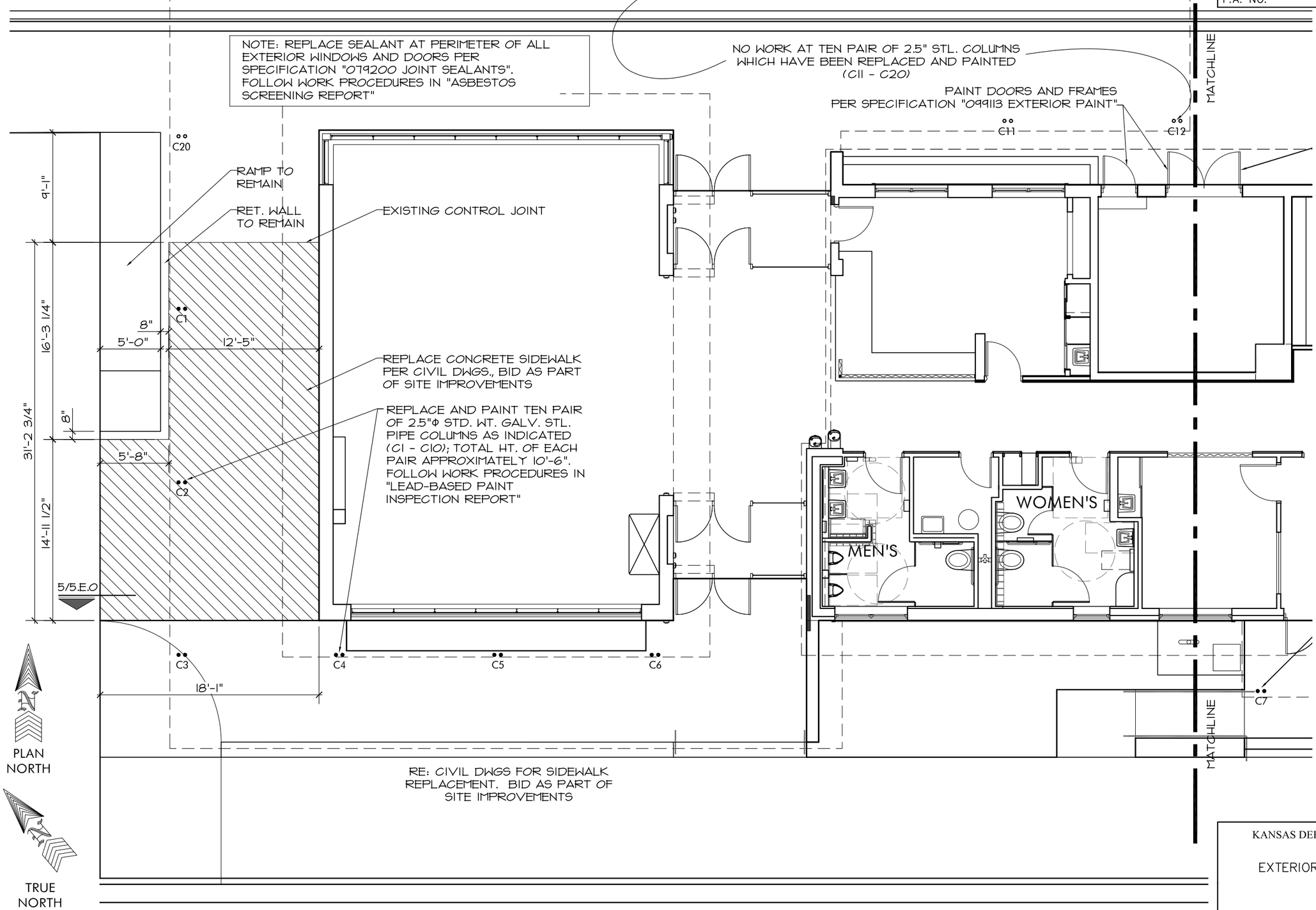
KANSAS DEPARTMENT OF TRANSPORTATION

FLOOR PLAN–FREIGHT OFFICE, VESTIBULE 14

1.A.9

FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	15	143
F.A. NO.				



DATE
BY
SURVEYED
PLOTTED
INKED
DESIGNED
SQUAD

1 EXTERIOR PLAN - WEST PORTION

1/8" = 1'-0"

KANSAS DEPARTMENT OF TRANSPORTATION

EXTERIOR PLAN – WEST PORTION

1.E.0

FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	16	143
F.A. NO.				

NOTE: REPLACE SEALANT AT PERIMETER OF ALL EXTERIOR WINDOWS AND DOORS PER SPECIFICATION "079200 JOINT SEALANTS". FOLLOW WORK PROCEDURES IN "ASBESTOS SCREENING REPORT"

C13

MATCHLINE

C12

PAINT DOORS AND FRAMES

PAINT DOOR AND FRAME. FOLLOW WORK PROCEDURES IN "LEAD-BASED PAINT INSPECTION REPORT"

INSTALL NEW CONCRETE PAVEMENT FLUSH W/ EXISTING CONCRETE PAVEMENT RE: C.8.5

EXISTING CONC. DRIVE & RAMP TO REMAIN

C10

C9

C8

191'-6"

35'-11"

16'-5"

10'-0"

8'-6"

6/5.E.0

PAINT DOOR AND FRAME

REPLACE CONCRETE SIDEWALK PER CIVIL DWGS. BID AS PART OF SITE IMPROVEMENTS

REPLACE AND PAINT (10) PAIRS OF 2.5"Φ STD. STL. PIPE COLUMNS (GALV 7ga) AS INDICATED (C1 - C10). FOLLOW WORK PROCEDURES IN "LEAD-BASED PAINT INSPECTION REPORT"

REMOVE RAILROAD TIE PLANTER; PROVIDE BRICK PLANTER TO MATCH ORIGINAL BRICK PLANTER AT NORTH SIDE (RE: 7/5.E.0). BID AS PART OF EXTERIOR RESTORATION

18'-6"

CONC. DOCK WALL TO REMAIN

C7

3'-4"

7/5.E.0

17'-4"

MATCHLINE

RE: CIVIL DWGS FOR SIDEWALK REPLACEMENT. BID AS PART OF SITE IMPROVEMENTS

RE: CIVIL DWGS FOR CONTINUATION OF SITE IMPROVEMENTS

PLAN NORTH

TRUE NORTH

DATE

BY

SURVEYED

PLOTTED

INKED

DESIGNED

SQUAD

1 EXTERIOR PLAN - EAST PORTION

1/8" = 1'-0"

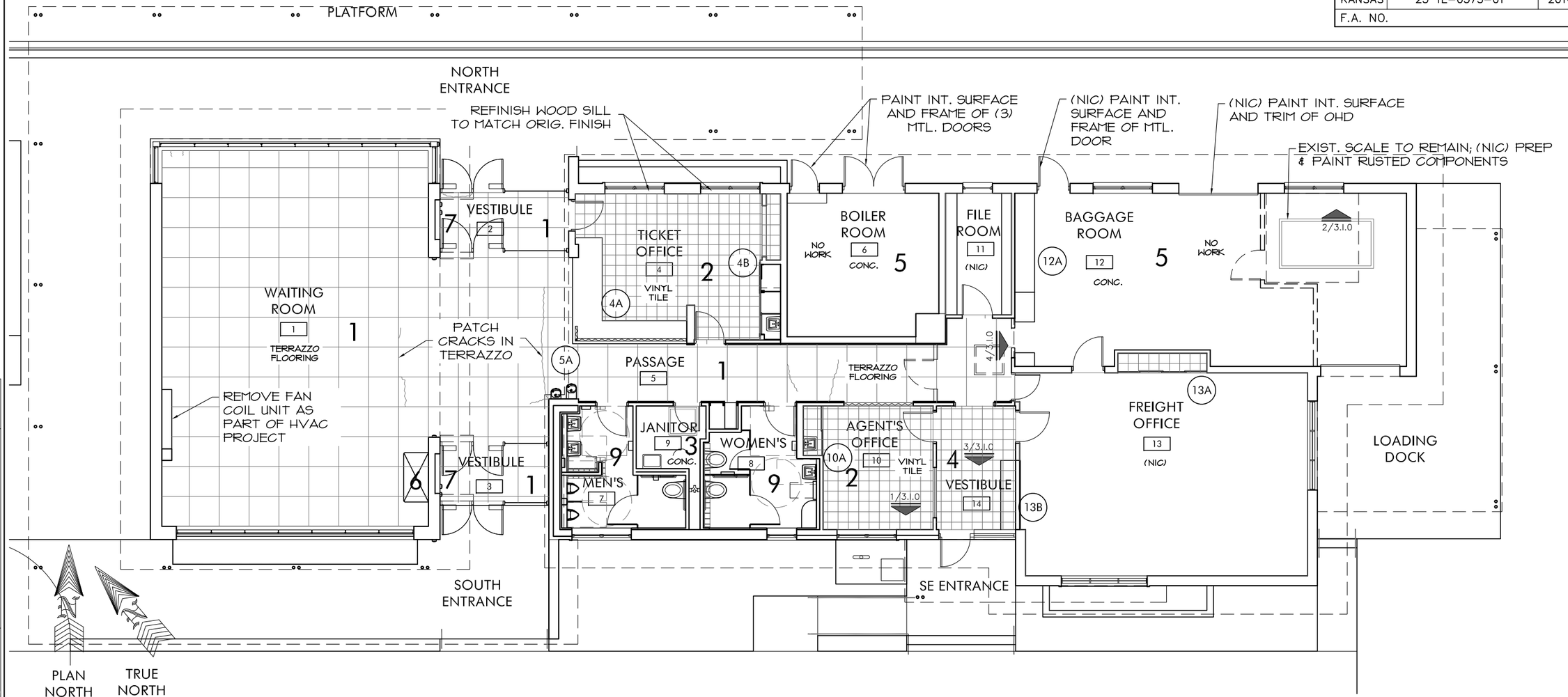
KANSAS DEPARTMENT OF TRANSPORTATION

EXTERIOR PLAN – EAST PORTION

1.E.1

FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	17	143
F.A. NO.				



1 FINISH FLOOR PLAN

3/32" = 1'-0"

NOTES:

1. Terrazzo Flooring: Patch approximately 32 l.f. of cracks, re-grind, clean, and seal existing terrazzo per specification "096610 Terrazzo Flooring Restoration & Maintenance".

2. 12x12 vinyl tile is not original, 9x9 vinyl tile in closet is original. Replace existing 12x12 vinyl tile w/ new 12x12 vinyl tile to match original color. Mastic and 9x9 tiles are ACBM; follow work procedures in "Asbestos Screening Report".

3. Existing concrete floor to remain. Replace existing 30"x30" steel floor hatch and frame with new floor hatch and frame per specification "083113 Access Doors and Frames".

4. 12x12 vinyl tile is not original. Replace existing vinyl tile w/ new 12x12 vinyl tile to match original color. Mastic is ACBM; follow work procedures in "Asbestos Screening Report".

5. Existing concrete floor to remain.

6. Clean and paint metal shell of existing HVAC equipment; follow "Lead-Based Paint Inspection Report". Refer to Mechanical documents for new equipment.

7. Remove piping to non-functional radiator; replace missing skirt at bottom of radiator; clean and paint metal shell of radiator.

8. Refer to Finish Schedule on sheets 7.1.0 and 7.1.1 for additional work.

9. Bathroom finishes are included in "Accessibility Improvements".

10. Refer to 6.1.0 and 6.1.1 for casework and closet door work.

RESTORATION NOTES

KANSAS DEPARTMENT OF TRANSPORTATION

FINISH FLOOR PLAN (ALTERNATE #1)

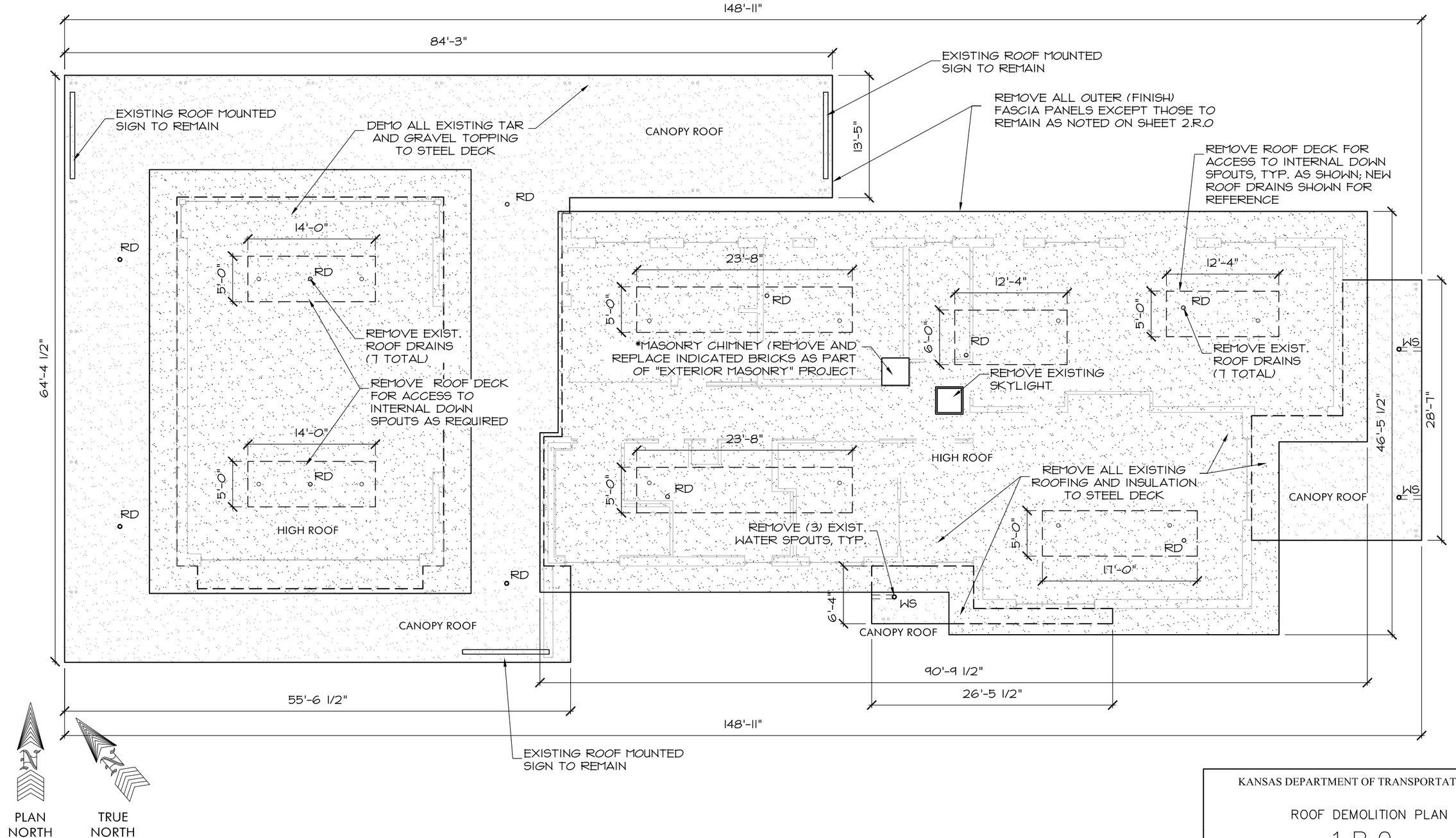
1.1.0

FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

DATE
BY
SURVEYED
PLOTTED
INKED
DESIGNED
SQUAD

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	18	143
F.A. NO.				

NOTE: EXISTING ROOF TAR AT EDGE FLASHINGS IS AN ASBESTOS CONTAINING BUILDING MATERIAL (ACBM). FOLLOW WORK PROCEDURES IN "ASBESTOS SCREENING REPORT" IN APPENDIX OF PROJECT MANUAL.



DATE | BY | SURVEYED | PLOTTED | INKED | DESIGNED | SQUAD

1 ROOF DEMOLITION PLAN

3/32" = 1'-0"

KANSAS DEPARTMENT OF TRANSPORTATION

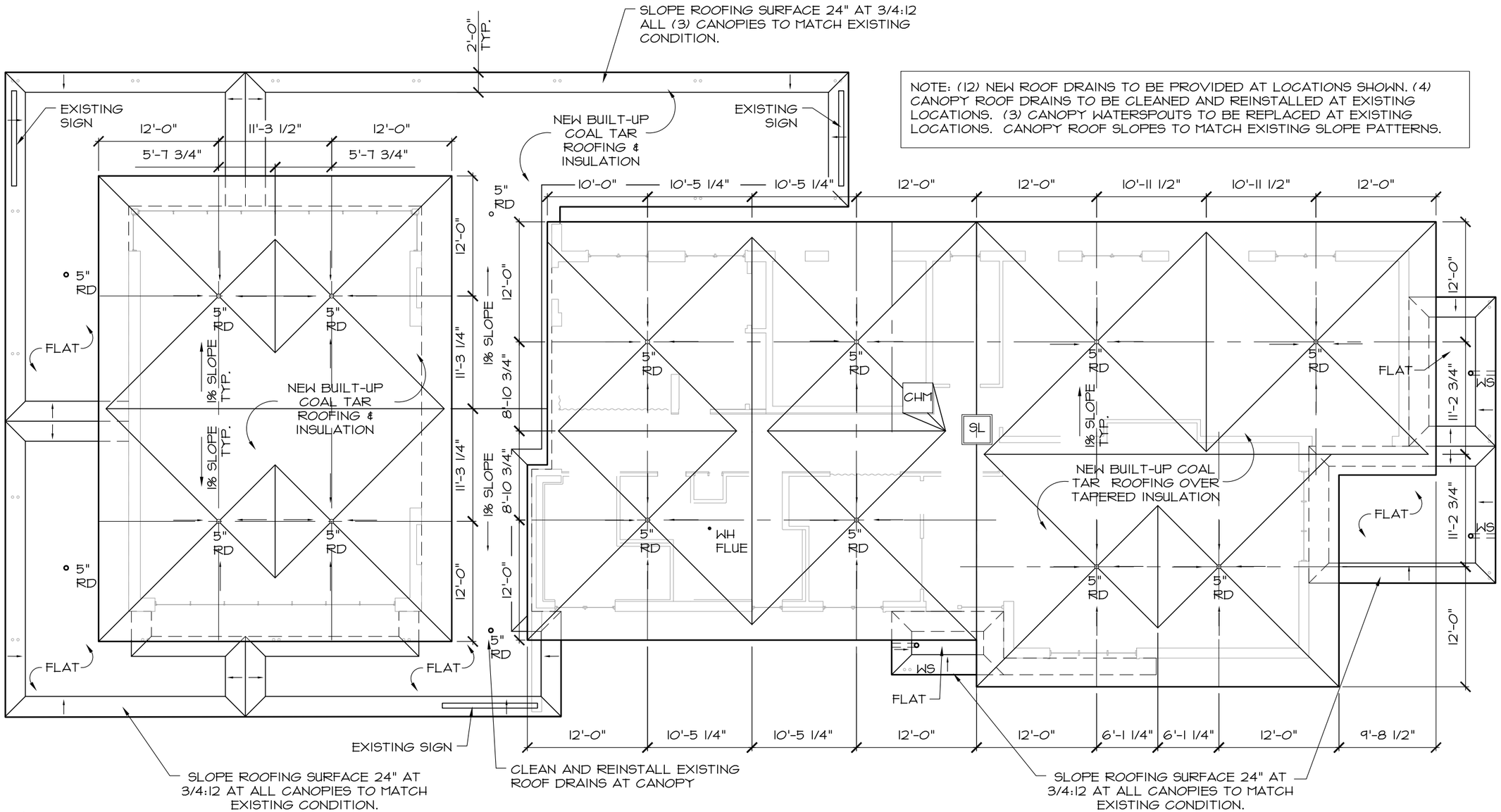
ROOF DEMOLITION PLAN

1.R.0

FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	19	143
F.A. NO.				

NOTE: (12) NEW ROOF DRAINS TO BE PROVIDED AT LOCATIONS SHOWN. (4) CANOPY ROOF DRAINS TO BE CLEANED AND REINSTALLED AT EXISTING LOCATIONS. (3) CANOPY WATERSPOUTS TO BE REPLACED AT EXISTING LOCATIONS. CANOPY ROOF SLOPES TO MATCH EXISTING SLOPE PATTERNS.



PLAN NORTH

TRUE NORTH

1 ROOF PLAN

3/32" = 1'-0"

DATE
BY
SURVEYED
PLOTTED
INKED
DESIGNED
SQUAD

KANSAS DEPARTMENT OF TRANSPORTATION

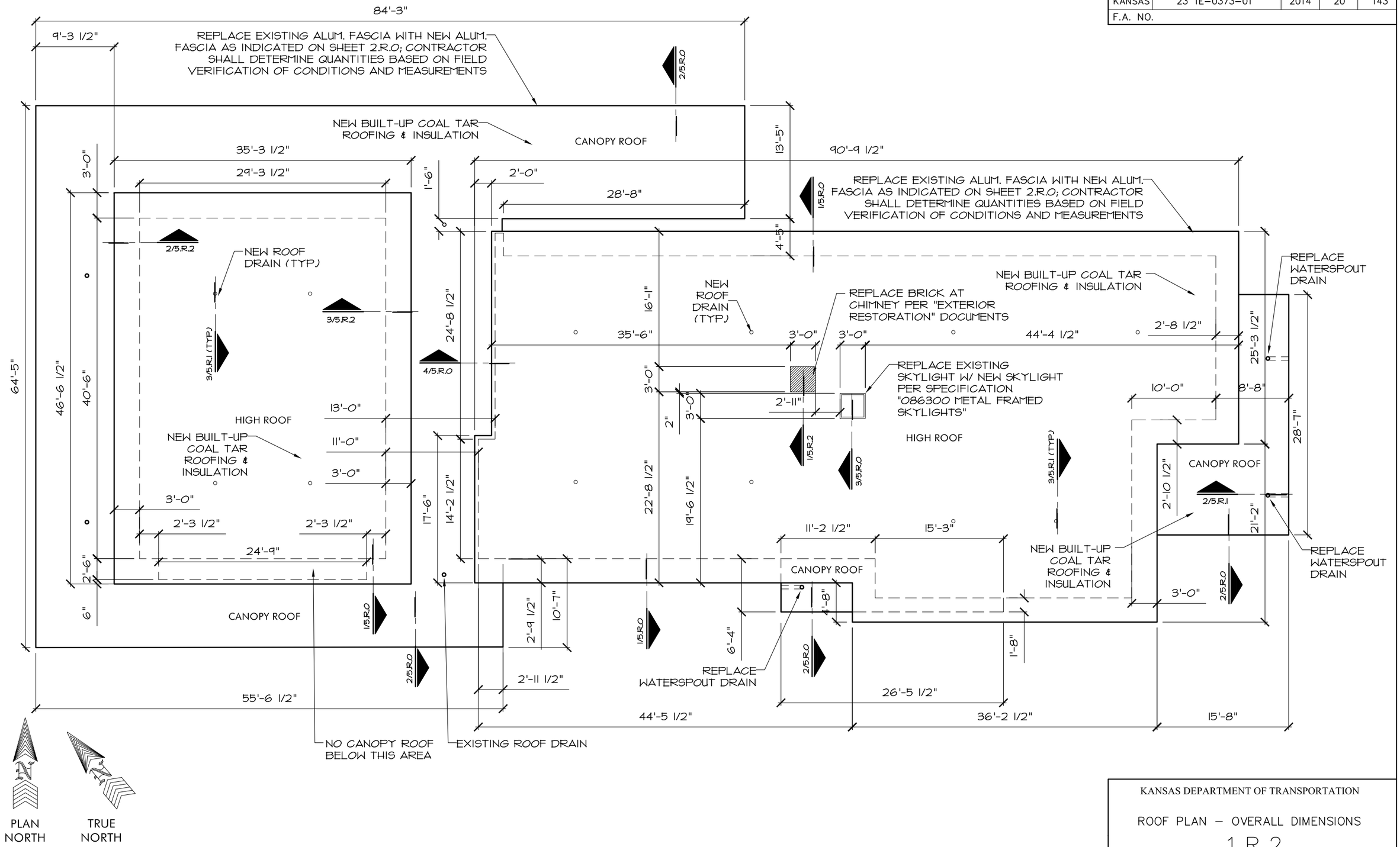
ROOF PLAN

1.R.1

FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	20	143
F.A. NO.				

DATE	BY	
		SURVEYED
		PLOTTED
		INKED
		DESIGNED
		SQUAD



1 ROOF PLAN - OVERALL DIMENSIONS

3/32" = 1'-0"

KANSAS DEPARTMENT OF TRANSPORTATION

ROOF PLAN – OVERALL DIMENSIONS

1.R.2

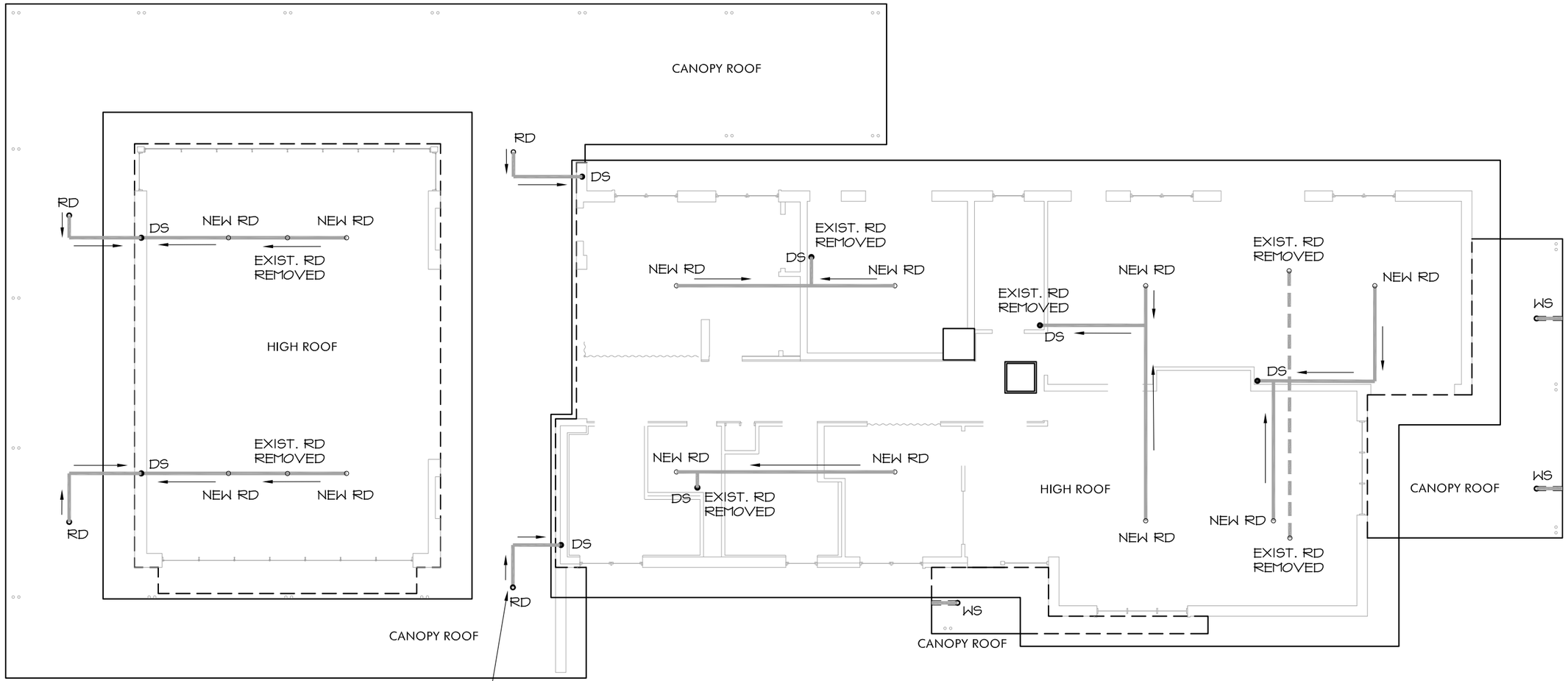
FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	21	143
F.A. NO.				

NOTE: ROOF DRAINS REPLACED AS SHOWN PER DETAIL 3/5.R.I; ALL EXISTING INTERNAL DOWNSPOUTS TO REMAIN, VERIFY CONDITION IS ACCEPTABLE; ALL CANOPY WATER SPOUTS TO BE REPLACED PER DETAIL 2/5.R.I

3" BUILDING SERVICE PIPING; APPROXIMATELY 155 L.F. NEW; APPROXIMETELY 27 L.F. EXISTING

REMOVE EXIST. DRAINAGE PIPE; APPROXIMATELY 30 L.F.



PLAN NORTH

TRUE NORTH

1 ROOF DRAINAGE PLAN

3/32" = 1'-0"

KANSAS DEPARTMENT OF TRANSPORTATION

ROOF DRAINAGE PLAN

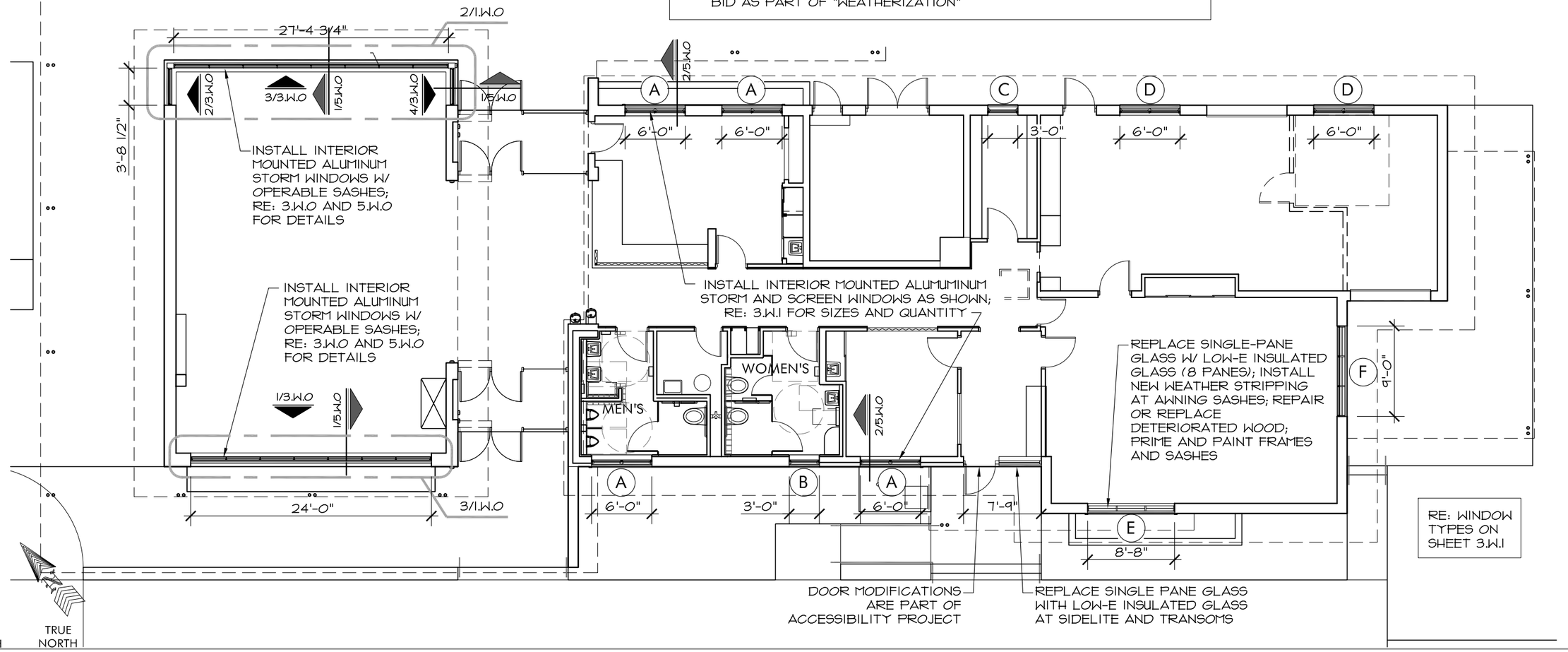
1.R.3

FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

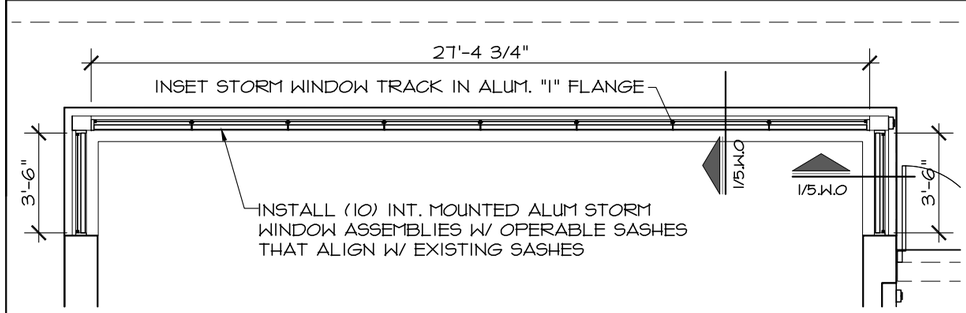
DATE
BY
SURVEYED
PLOTTED
INKED
DESIGNED
SQUAD

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	22	143
F.A. NO.				

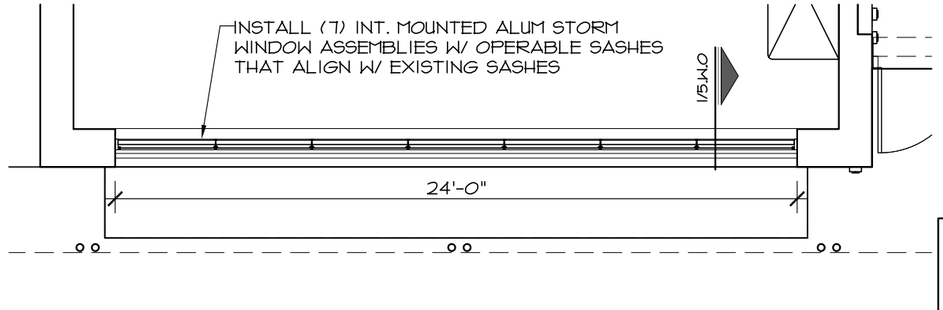
NOTES:
1. REPLACE MISSING GLAZING COMPOUND AT ALL EXISTING WINDOWS
2. INSTALL 3" SPRAY INSULATION ON UNDERSIDE OF ROOF DECKING AT ALL AREAS. BID AS PART OF "ALTERNATE 2"
3. INSTALL R-11 BATT INSULATION ON TOP OF ALL EXTERIOR WALLS TO BOTTOM OF ROOF DECK (SEE SHEET 5.A.1 FOR INSULATION DETAILS). BID AS PART OF "WEATHERIZATION"



1 FLOOR PLAN -STORM WINDOWS
3/32" = 1'-0"



2 NORTH WINDOW WALL DETAIL
3/16" = 1'-0"



3 SOUTH WINDOW WALL DETAIL
3/16" = 1'-0"

KANSAS DEPARTMENT OF TRANSPORTATION

FLOOR PLAN & STOREFRONT DETAILS

1.W.O

FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

DATE
BY
SURVEYED
PLOTTED
INKED
DESIGNED
SQUAD

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	23	143
F.A. NO.				

DATE

BY

SURVEYED

PLOTTED

INKED

DESIGNED

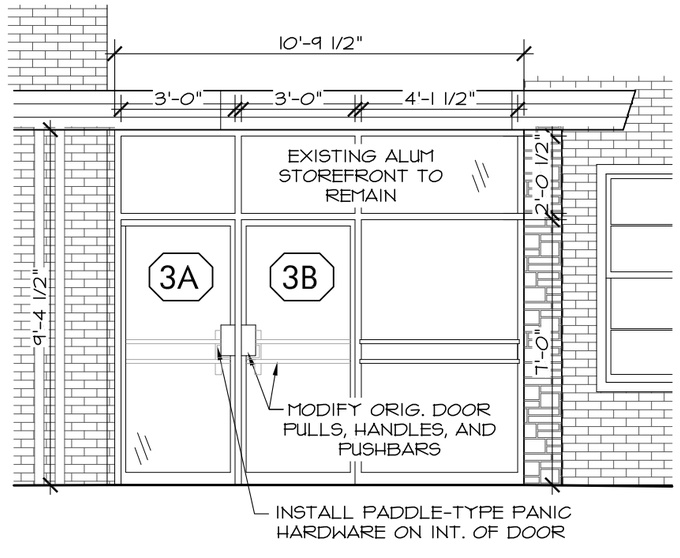
SQUAD

1 NOT USED

2 NOT USED

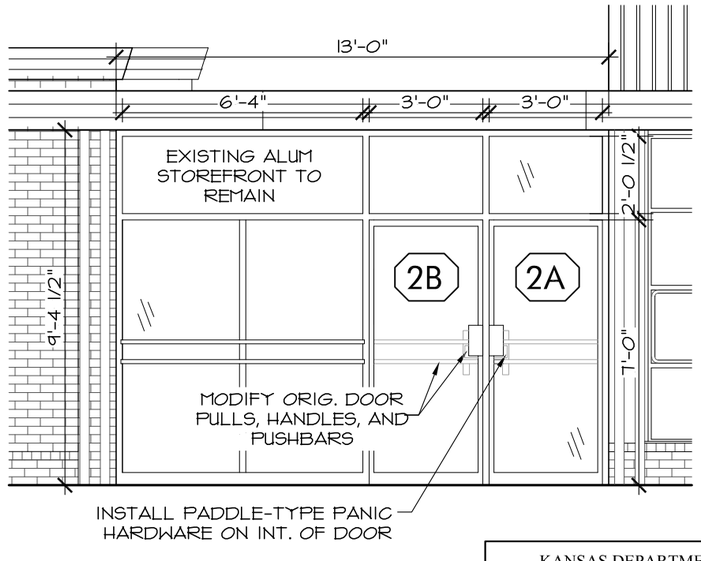
3 SOUTH STOREFRONT

3/16" = 1'-0"



4 NORTH STRFRNT

3/16" = 1'-0"



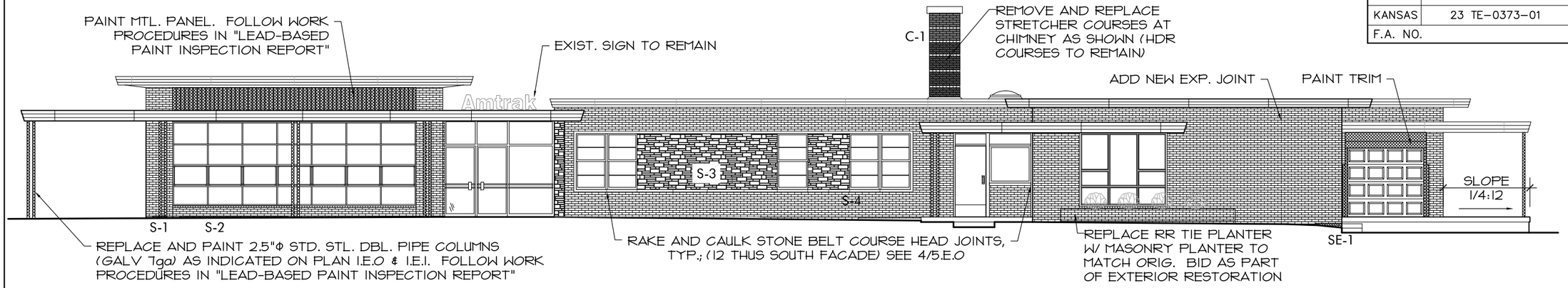
KANSAS DEPARTMENT OF TRANSPORTATION

ELEVATION DETAIL

2.A.0

FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

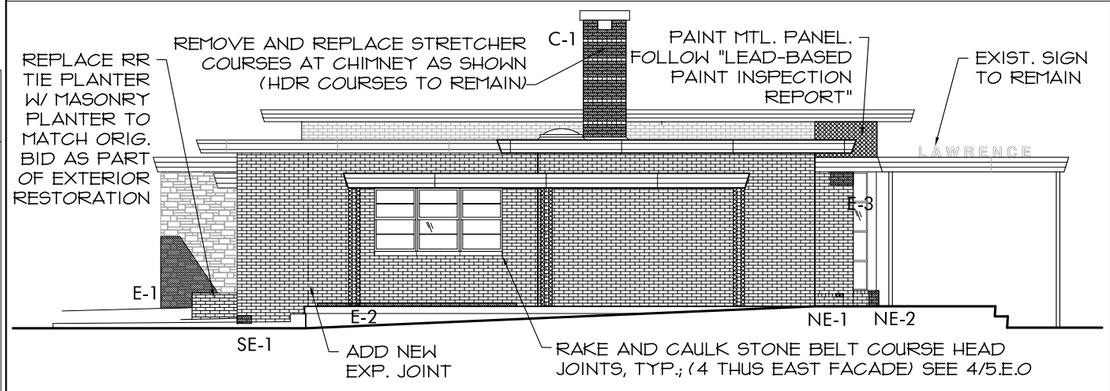
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	24	143
F.A. NO.				



1 EXISTING SOUTH ELEVATION

3/32" = 1'-0"

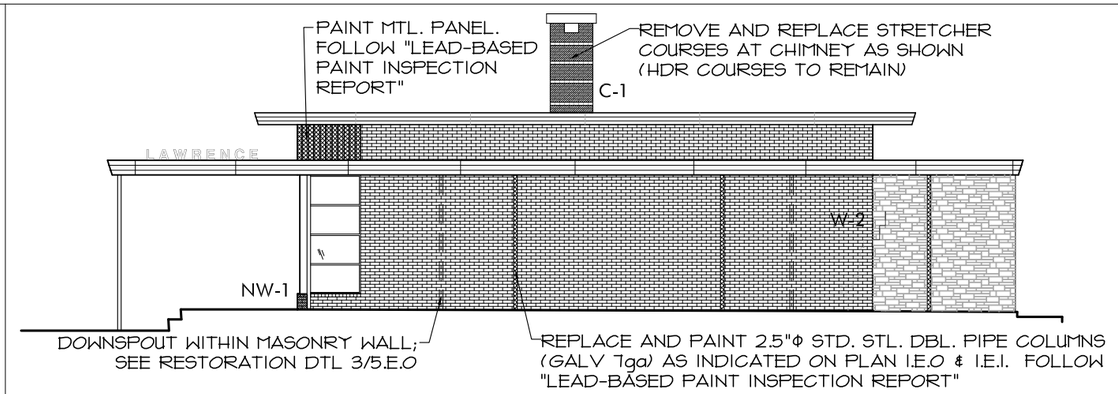
= MASONRY REPAIRS
REFERENCE 6.E.0 - 6.E.2



2 EXISTING EAST ELEVATION

3/32" = 1'-0"

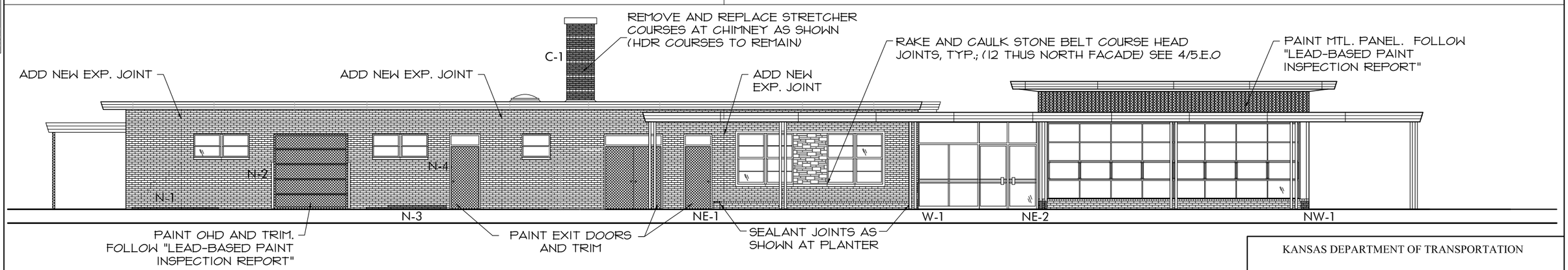
= MASONRY REPAIRS
REFERENCE 6.E.0 - 6.E.2



3 EXISTING WEST ELEVATION

3/32" = 1'-0"

= MASONRY REPAIRS
REFERENCE 6.E.0 - 6.E.2



4 EXISTING NORTH ELEVATION

3/32" = 1'-0"

= MASONRY REPAIRS
REFERENCE 6.E.0 - 6.E.2

KANSAS DEPARTMENT OF TRANSPORTATION

EXISTING ELEVATIONS

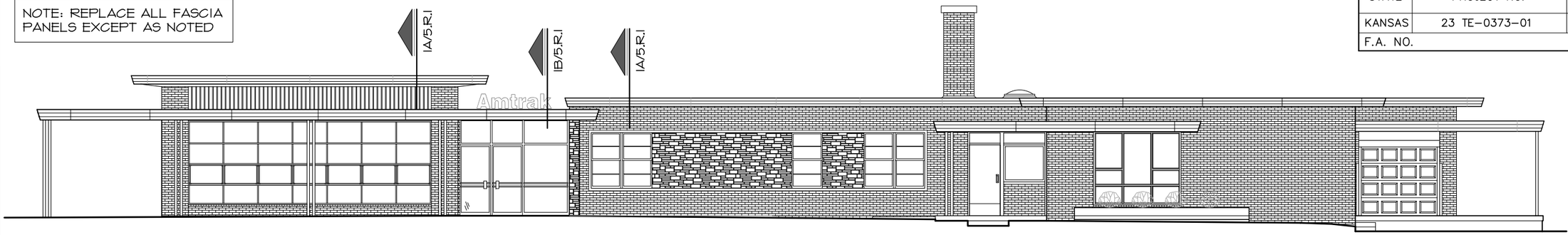
2.E.0

FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

DATE
BY
SURVEYED
PLOTTED
INKED
DESIGNED
SQUAD

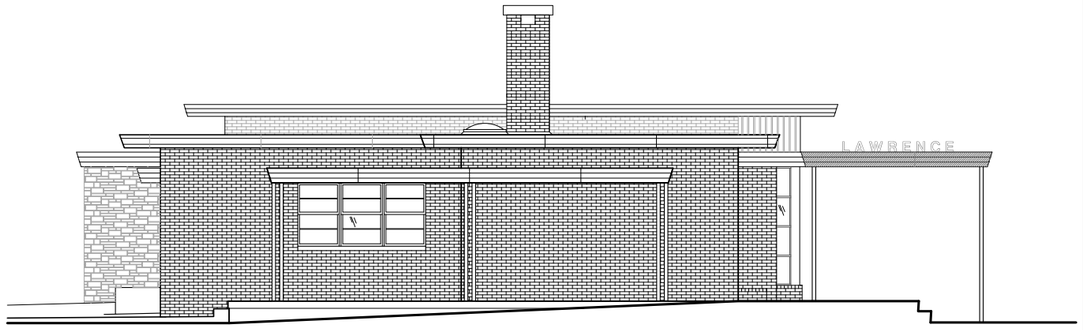
NOTE: REPLACE ALL FASCIA PANELS EXCEPT AS NOTED

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	25	143
F.A. NO.				



1 SOUTH ELEVATION - FASCIA REPLACEMENT

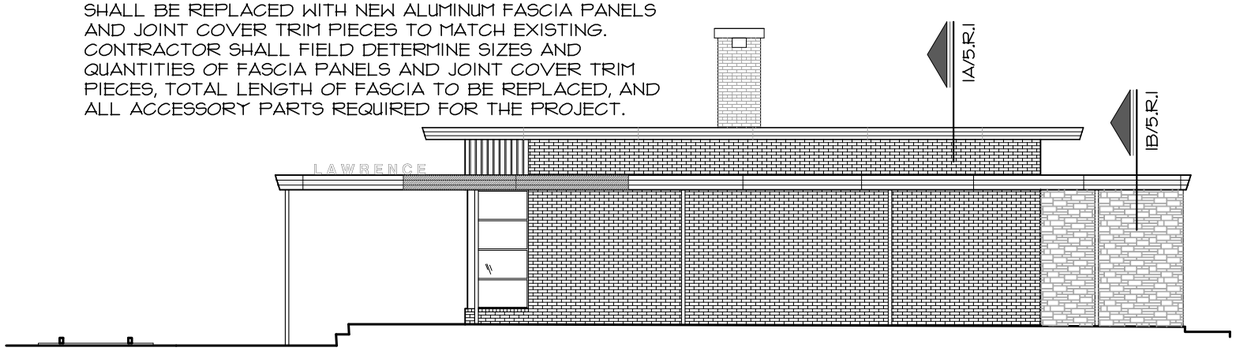
3/32" = 1'-0"



2 EAST ELEVATION - FASCIA REPLACMENT

3/32" = 1'-0"

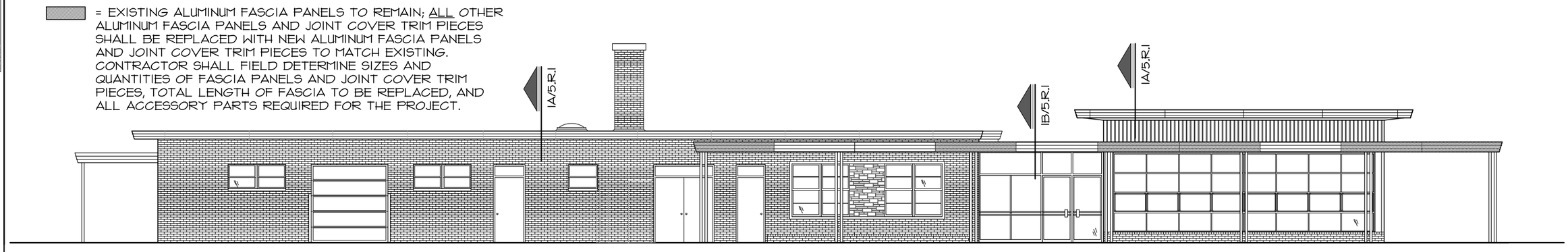
= EXISTING ALUMINUM FASCIA PANELS TO REMAIN; ALL OTHER ALUMINUM FASCIA PANELS AND JOINT COVER TRIM PIECES SHALL BE REPLACED WITH NEW ALUMINUM FASCIA PANELS AND JOINT COVER TRIM PIECES TO MATCH EXISTING. CONTRACTOR SHALL FIELD DETERMINE SIZES AND QUANTITIES OF FASCIA PANELS AND JOINT COVER TRIM PIECES, TOTAL LENGTH OF FASCIA TO BE REPLACED, AND ALL ACCESSORY PARTS REQUIRED FOR THE PROJECT.



3 WEST ELEVATION - FASCIA REPLACEMENT

3/32" = 1'-0"

= EXISTING ALUMINUM FASCIA PANELS TO REMAIN; ALL OTHER ALUMINUM FASCIA PANELS AND JOINT COVER TRIM PIECES SHALL BE REPLACED WITH NEW ALUMINUM FASCIA PANELS AND JOINT COVER TRIM PIECES TO MATCH EXISTING. CONTRACTOR SHALL FIELD DETERMINE SIZES AND QUANTITIES OF FASCIA PANELS AND JOINT COVER TRIM PIECES, TOTAL LENGTH OF FASCIA TO BE REPLACED, AND ALL ACCESSORY PARTS REQUIRED FOR THE PROJECT.



4 NORTH ELEVATION - FASCIA REPLACEMENT

3/32" = 1'-0"

DATE
BY
SURVEYED
PLOTTED
INKED
DESIGNED
SQUAD

KANSAS DEPARTMENT OF TRANSPORTATION

ELEVATIONS

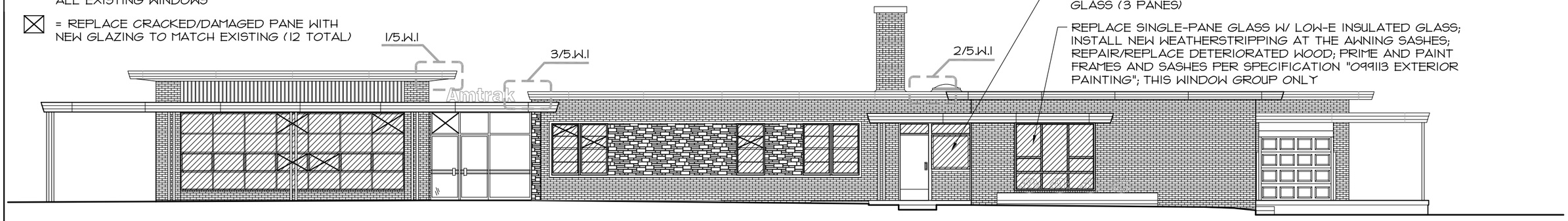
2.R.0

FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	26	143
F.A. NO.				

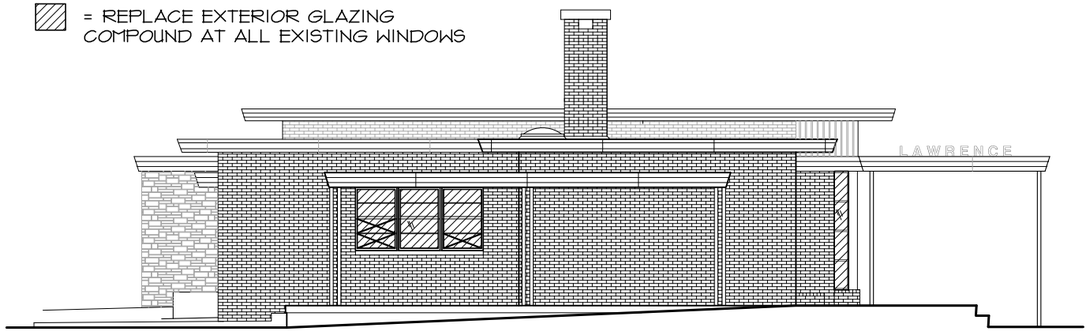
▨ = REPLACE MISSING GLAZING COMPOUND AT ALL EXISTING WINDOWS

☒ = REPLACE CRACKED/DAMAGED PANE WITH NEW GLAZING TO MATCH EXISTING (12 TOTAL)



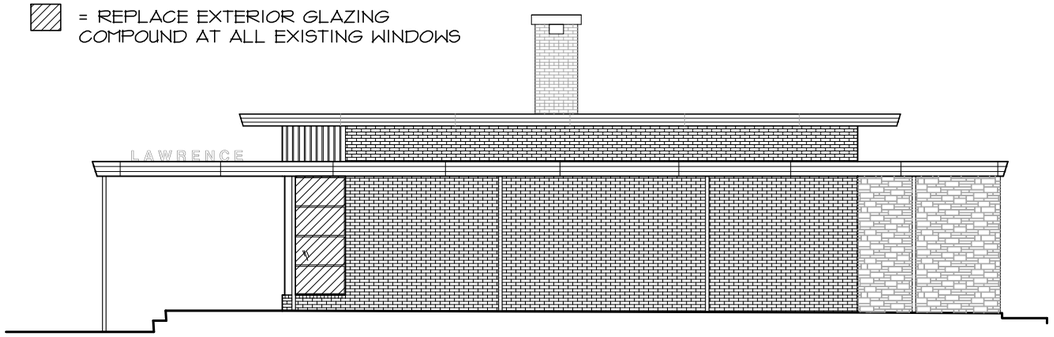
1 SOUTH ELEVATION
3/32" = 1'-0"

▨ = REPLACE EXTERIOR GLAZING COMPOUND AT ALL EXISTING WINDOWS



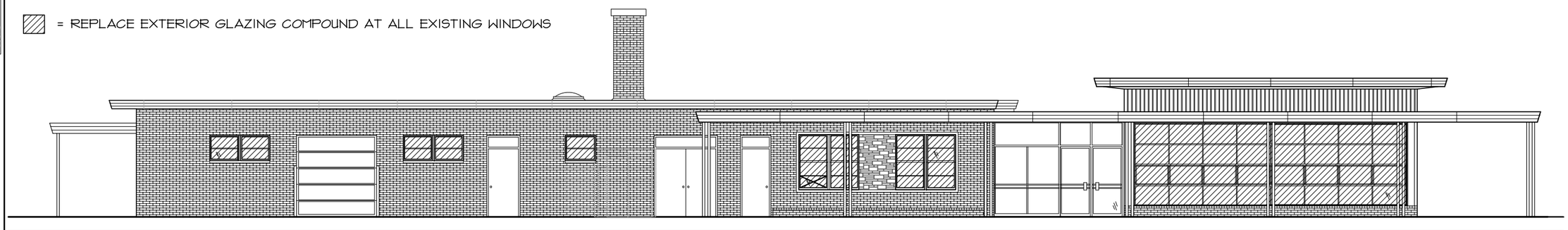
2 EAST ELEVATION
3/32" = 1'-0"

▨ = REPLACE EXTERIOR GLAZING COMPOUND AT ALL EXISTING WINDOWS



3 WEST ELEVATION
3/32" = 1'-0"

▨ = REPLACE EXTERIOR GLAZING COMPOUND AT ALL EXISTING WINDOWS



4 NORTH ELEVATION
3/32" = 1'-0"

KANSAS DEPARTMENT OF TRANSPORTATION

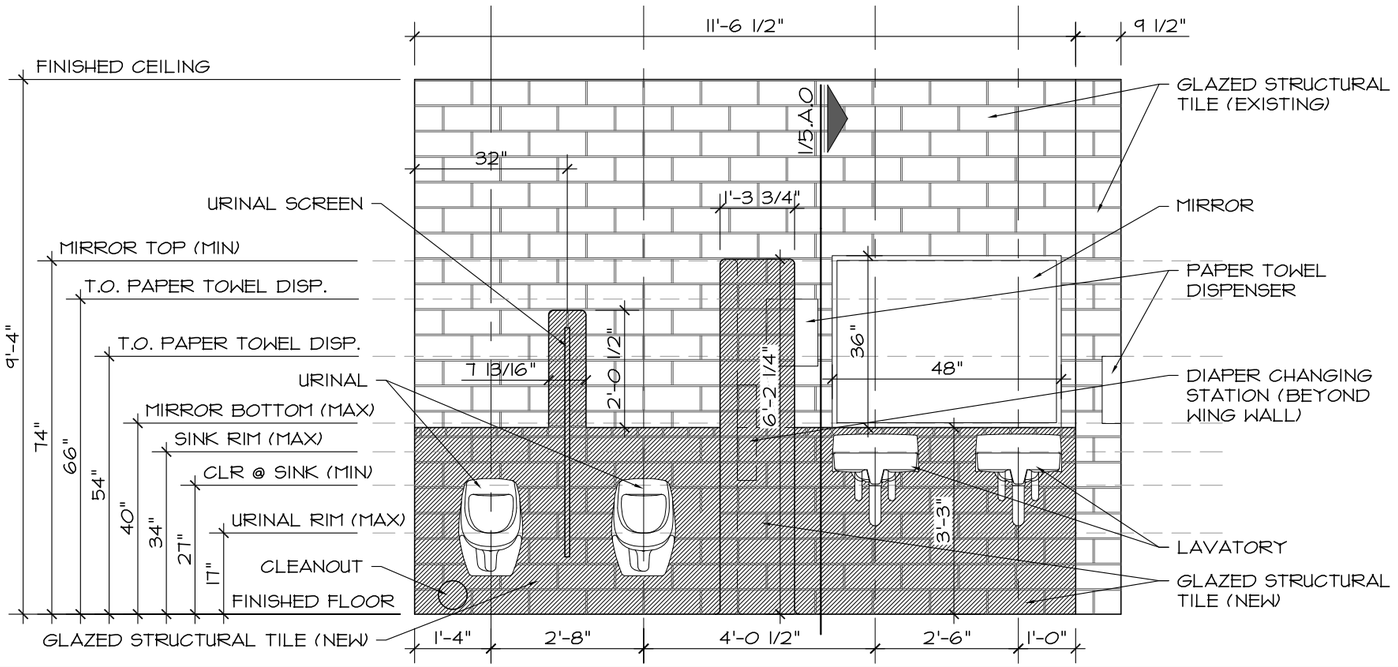
ELEVATIONS

2.W.0

FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

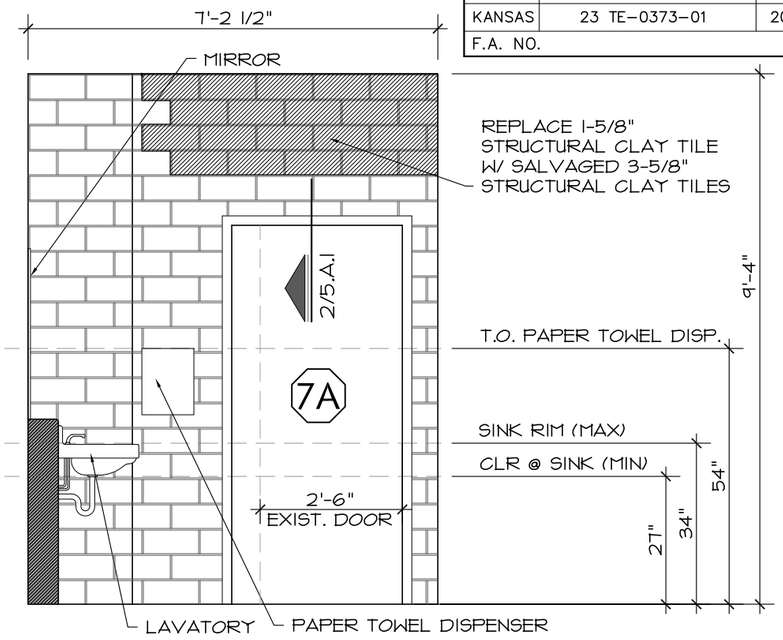
DATE
BY
SURVEYED
PLOTTED
INKED
DESIGNED
SQUAD

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	27	143
F.A. NO.				



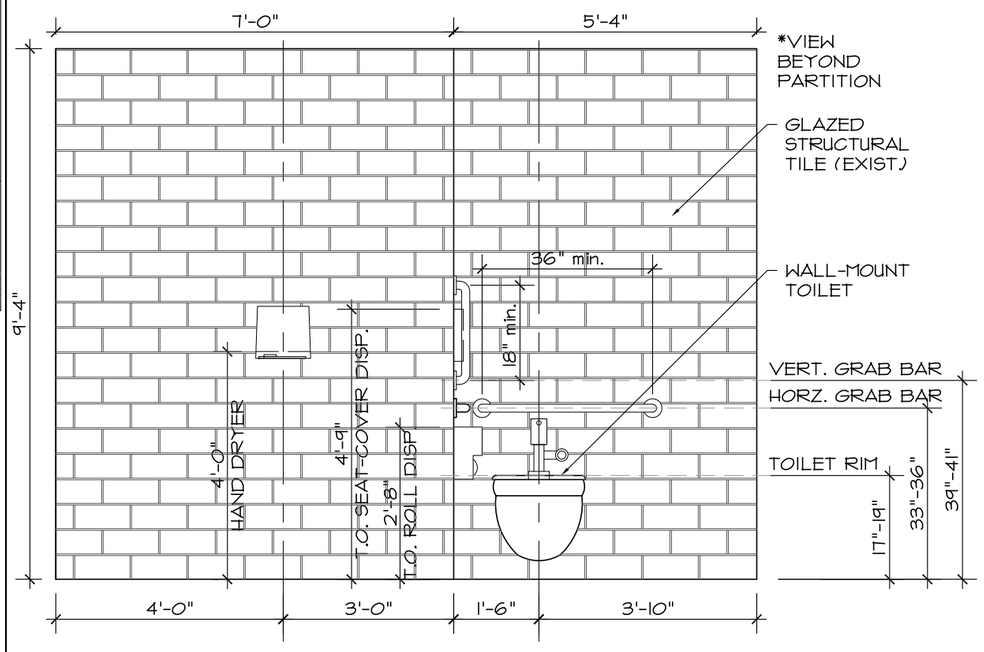
1 WEST WALL MEN'S BATHROOM

3/8" = 1'-0"



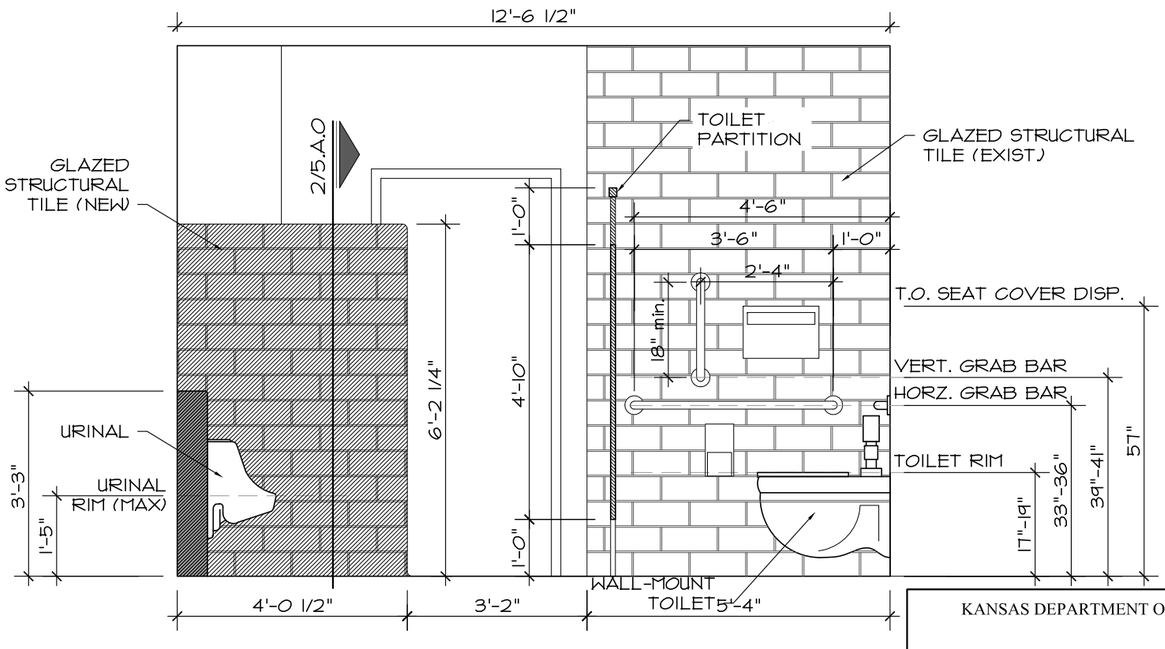
2 NORTH WALL MEN'S BATHROOM

3/8" = 1'-0"



3 EAST WALL MEN'S BATHROOM

3/8" = 1'-0"



4 NORTH VIEW MEN'S BATHROOM

3/8" = 1'-0"

KANSAS DEPARTMENT OF TRANSPORTATION

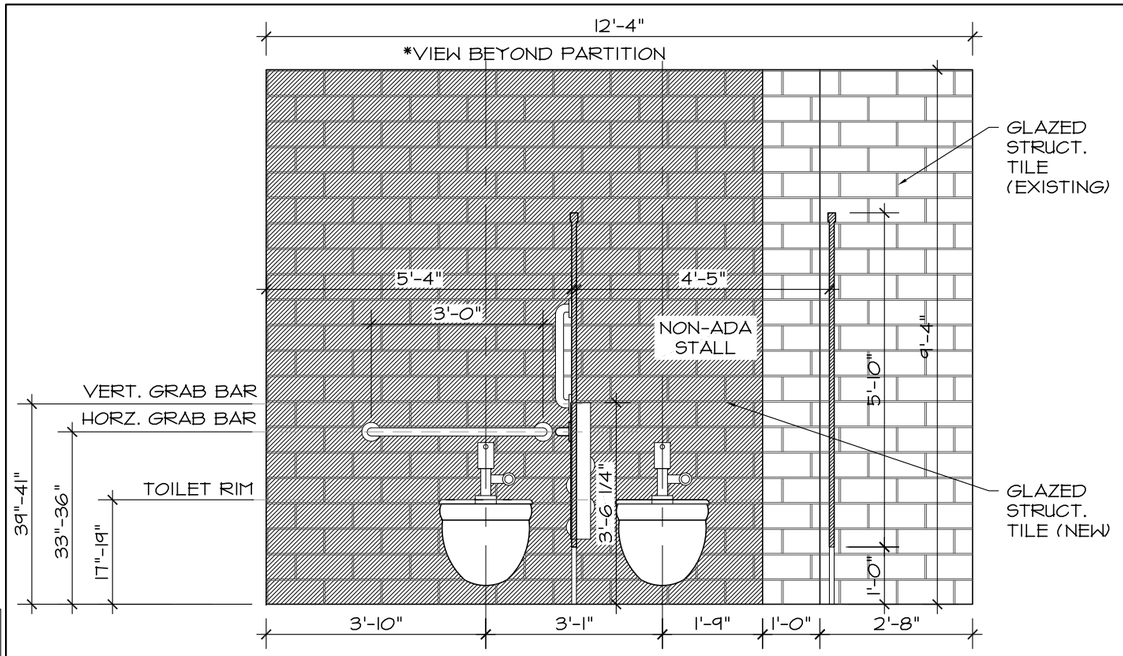
INTERIOR ELEVATIONS – BATHROOM 7

3.A.0

FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

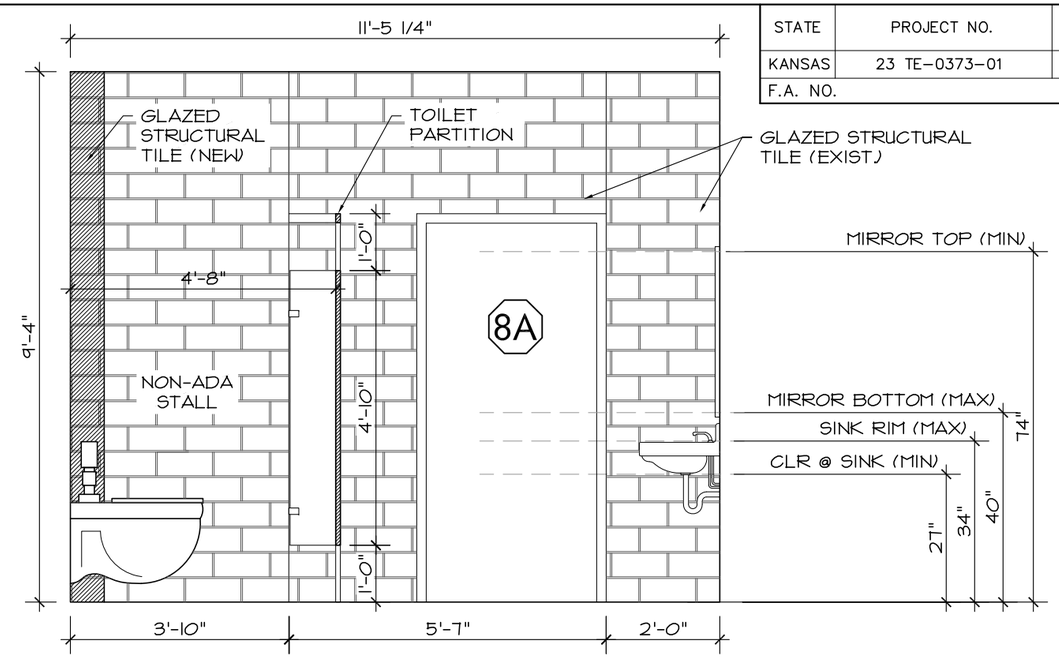
DATE | BY | SURVEYED | PLOTTED | INKED | DESIGNED | SQUAD

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	28	143
F.A. NO.				



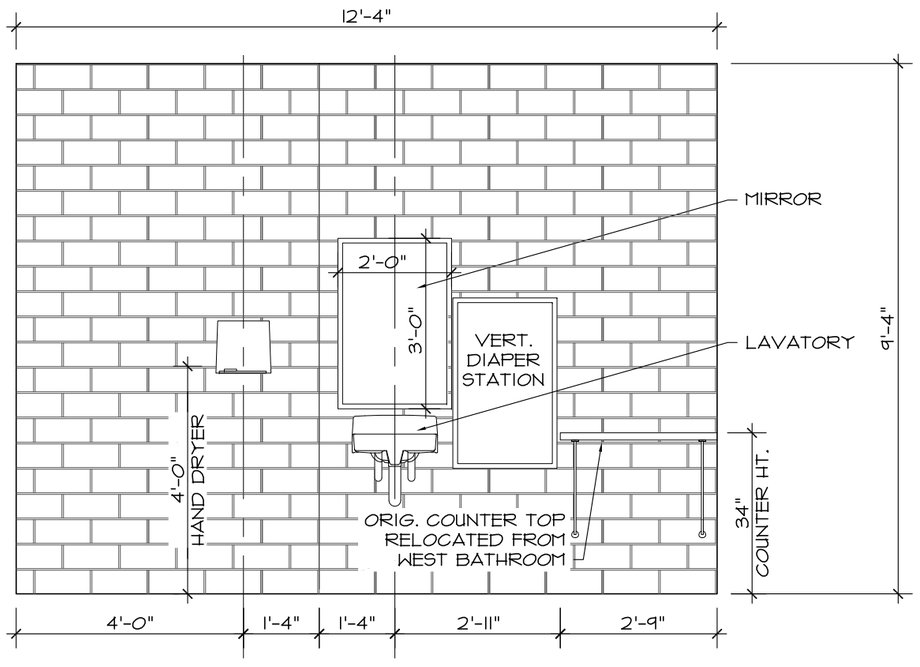
1 WEST WALL WOMEN'S BATHROOM

3/8" = 1'-0"



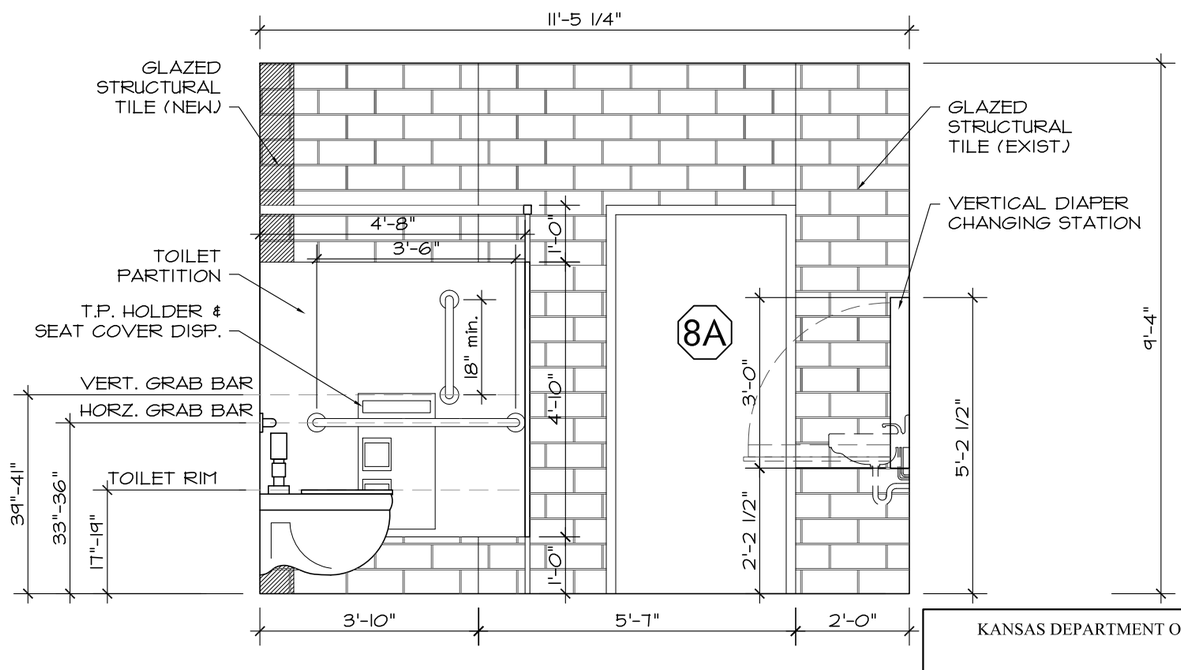
2 NORTH WALL WOMEN'S BATHROOM

3/8" = 1'-0"



3 EAST WALL WOMEN'S BATHROOM

3/8" = 1'-0"



4 NORTH VIEW WOMEN'S BATHROOM

3/8" = 1'-0"

KANSAS DEPARTMENT OF TRANSPORTATION

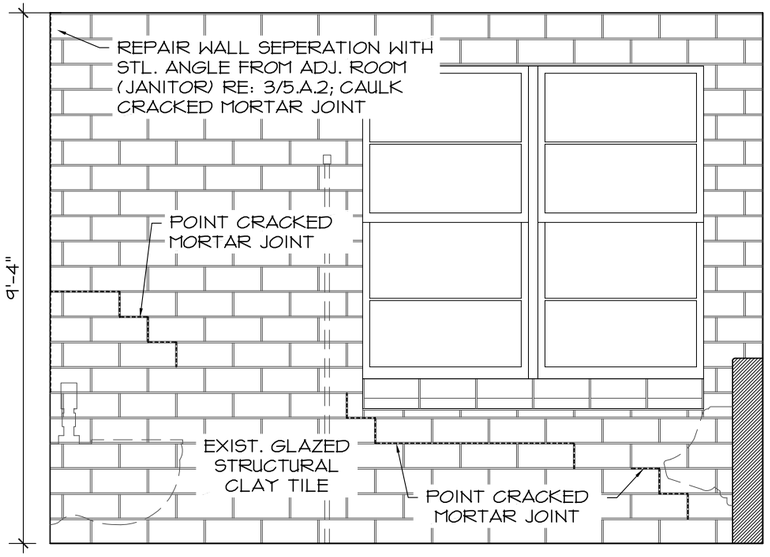
INTERIOR ELEVATIONS – BATHROOM 8

3.A.1

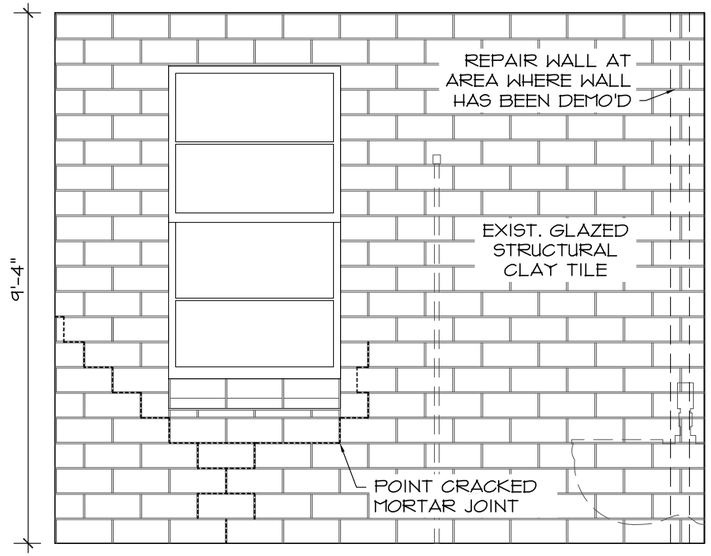
FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

DATE
BY
SURVEYED
PLOTTED
INKED
DESIGNED
SQUAD

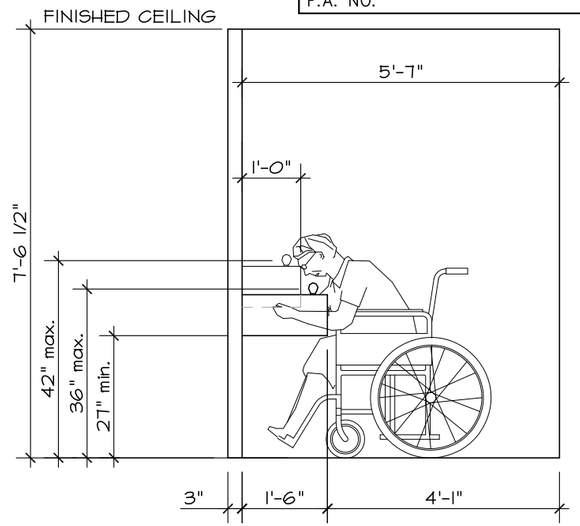
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	29	143
F.A. NO.				



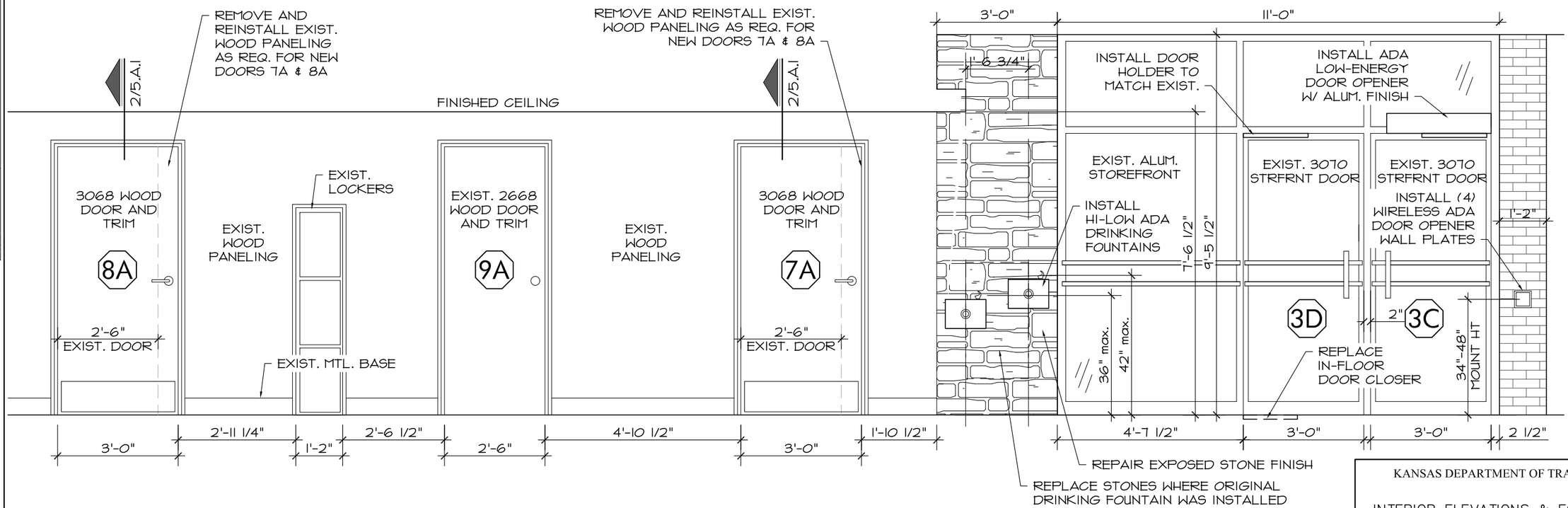
1 SOUTH WALL MEN'S BATHROOM
3/8" = 1'-0"



2 SOUTH - WOMEN'S RESTROOM
3/8" = 1'-0"



3 DRINKING FOUNTAIN
3/8" = 1'-0"



4 SOUTH WALL PASSAGE AND SOUTH ENTRY
3/8" = 1'-0"

DATE | BY | SURVEYED | PLOTTED | INKED | DESIGNED | SQUAD

KANSAS DEPARTMENT OF TRANSPORTATION

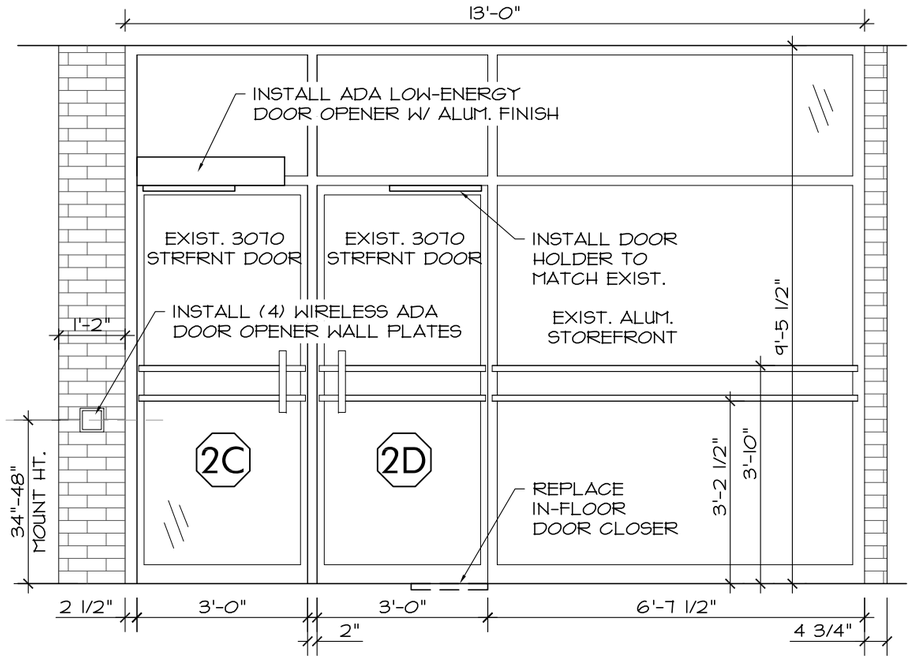
INTERIOR ELEVATIONS & FOUNTAIN DETAIL

3.A.2

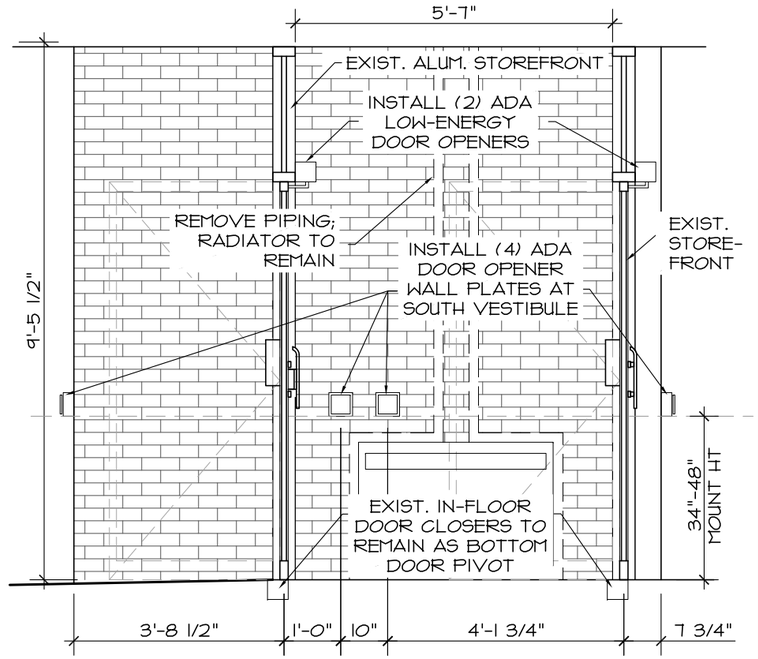
FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	30	143
F.A. NO.				

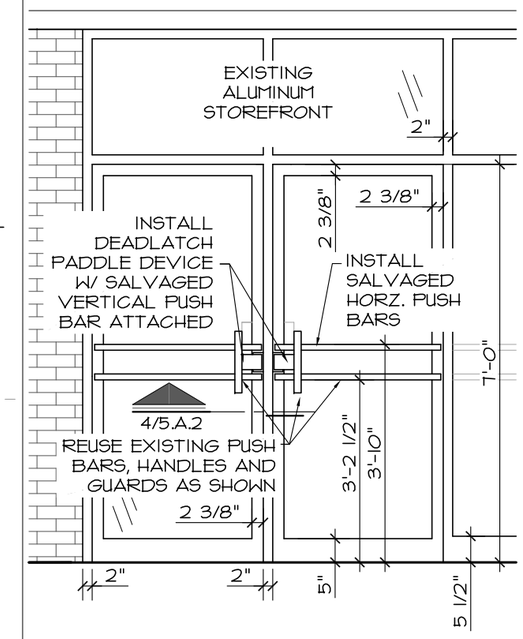
DATE
BY
SURVEYED
PLOTTED
INKED
DESIGNED
SQUAD



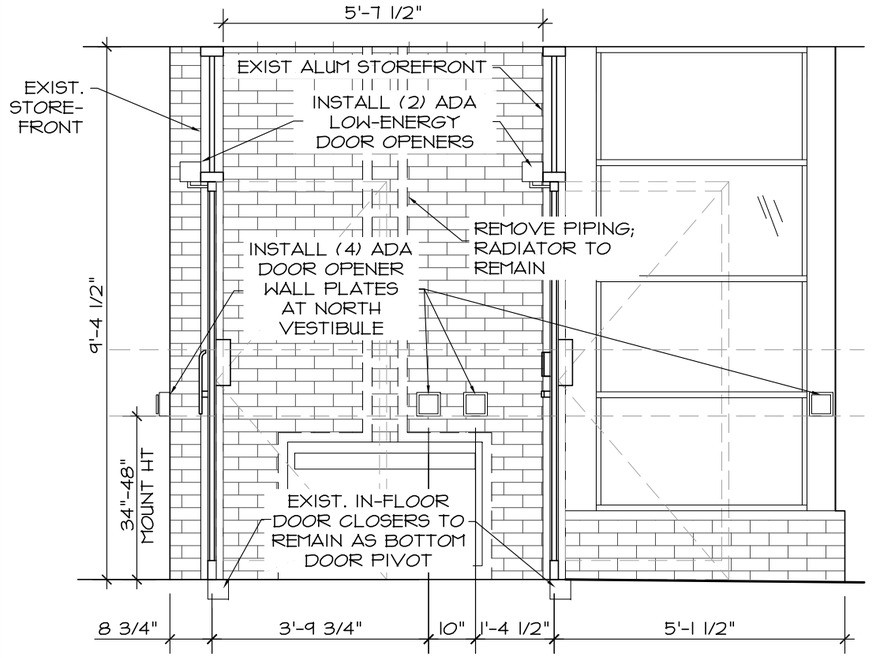
1 NORTH ENTRY
3/8" = 1'-0"



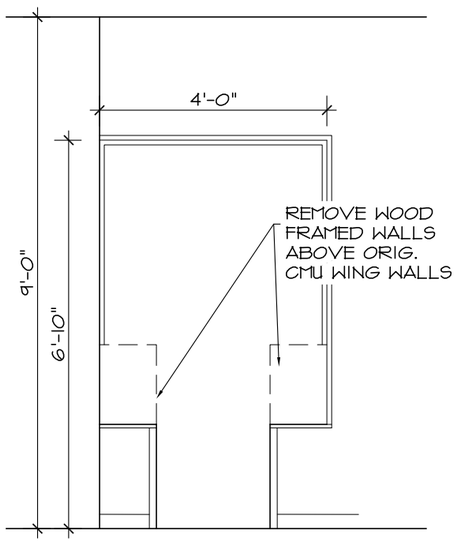
2 WEST WALL SOUTH VESTIBULE
3/8" = 1'-0"



5 PANIC HARDWARE
3/8" = 1'-0"

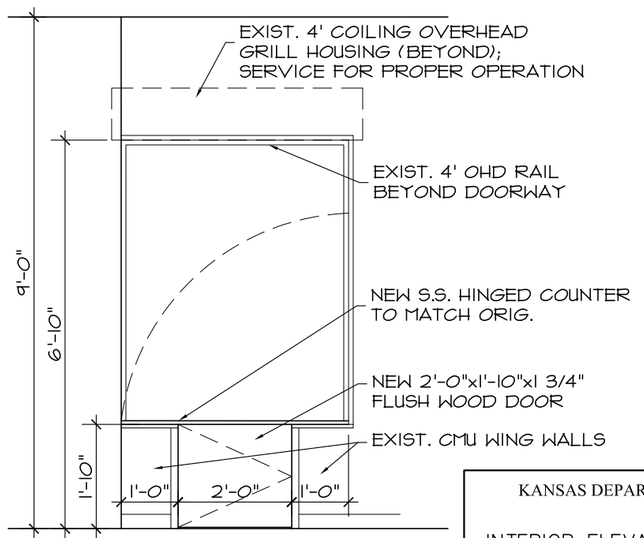


3 WEST WALL NORTH VESTIBULE
3/8" = 1'-0"



(NIC)

4 WEST SIDE - DOOR 12D DEMO & PROP.
3/8" = 1'-0"



(NIC)

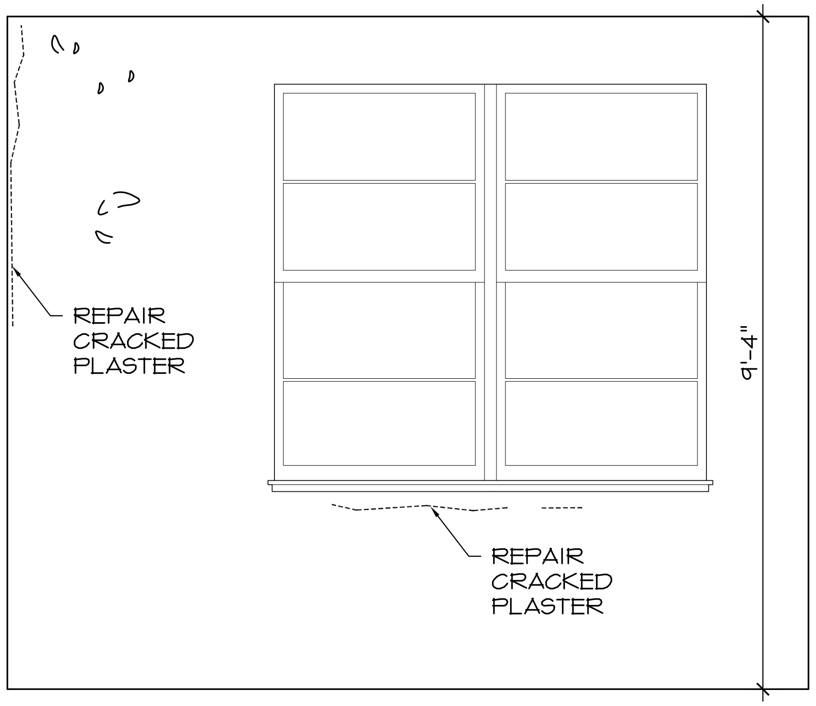
KANSAS DEPARTMENT OF TRANSPORTATION

INTERIOR ELEVATIONS & DOOR 12D DETAIL

3.A.3

FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

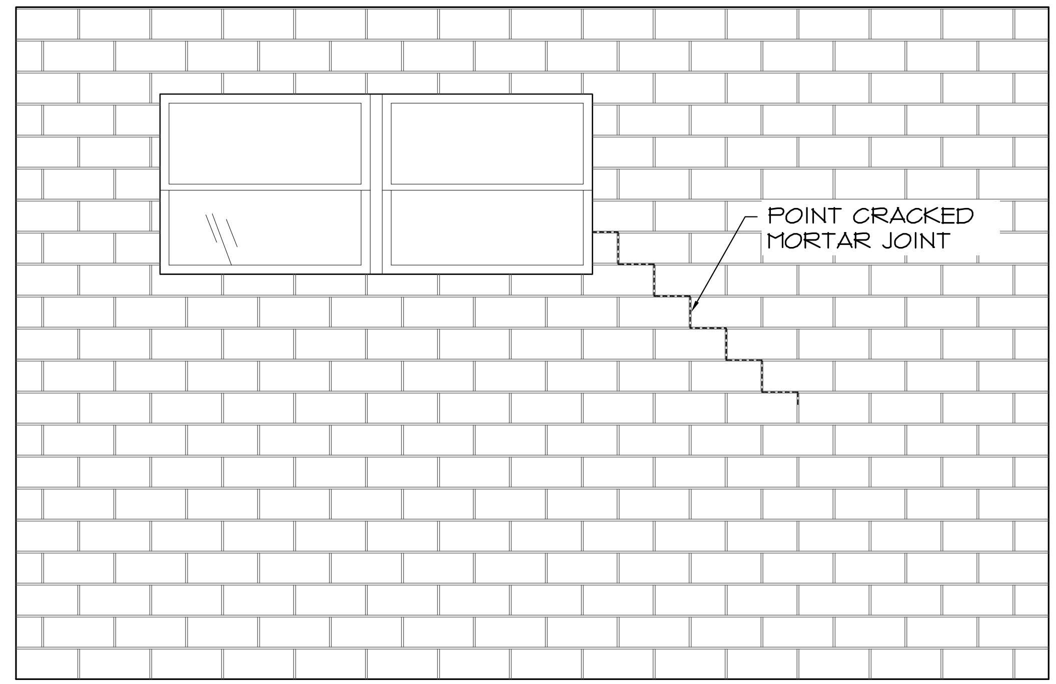
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	31	143
F.A. NO.				



REFER TO FINISH SCHEDULE ON 7.i.0 & 7.i.1 FOR ADDITIONAL INTERIOR FINISH WORK

1 SOUTH WALL AGENT'S OFF.

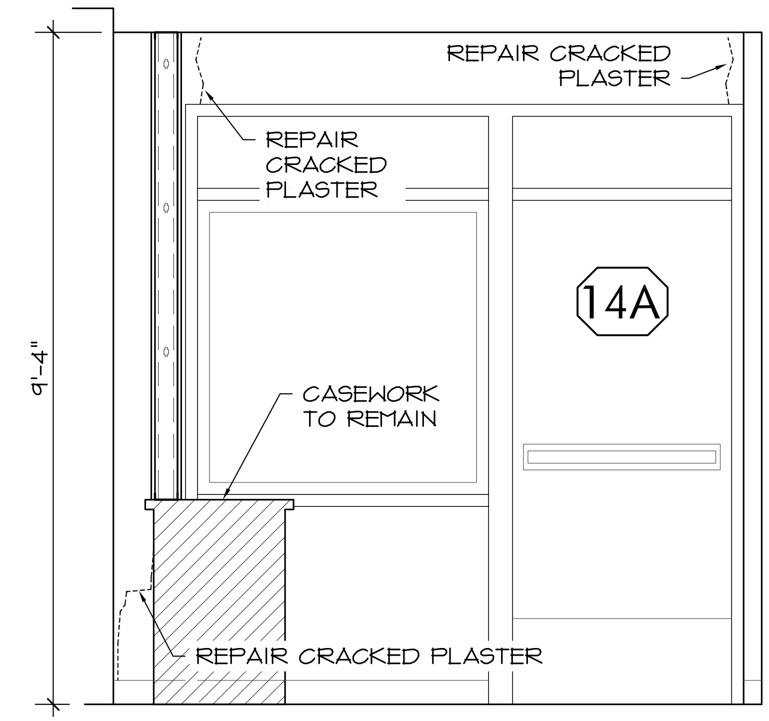
3/8" = 1'-0"



REFER TO FINISH SCHEDULE ON 7.i.0 & 7.i.1 FOR ADDITIONAL INTERIOR FINISH WORK

2 NORTH WALL BAGGAGE ROOM

3/8" = 1'-0"



REFER TO FINISH SCHEDULE ON 7.i.0 & 7.i.1 FOR ADDITIONAL INTERIOR FINISH WORK

3 SOUTH WALL VESTIBULE 14

3/8" = 1'-0"

DATE
BY
SURVEYED
PLOTTED
INKED
DESIGNED
SQUAD

KANSAS DEPARTMENT OF TRANSPORTATION

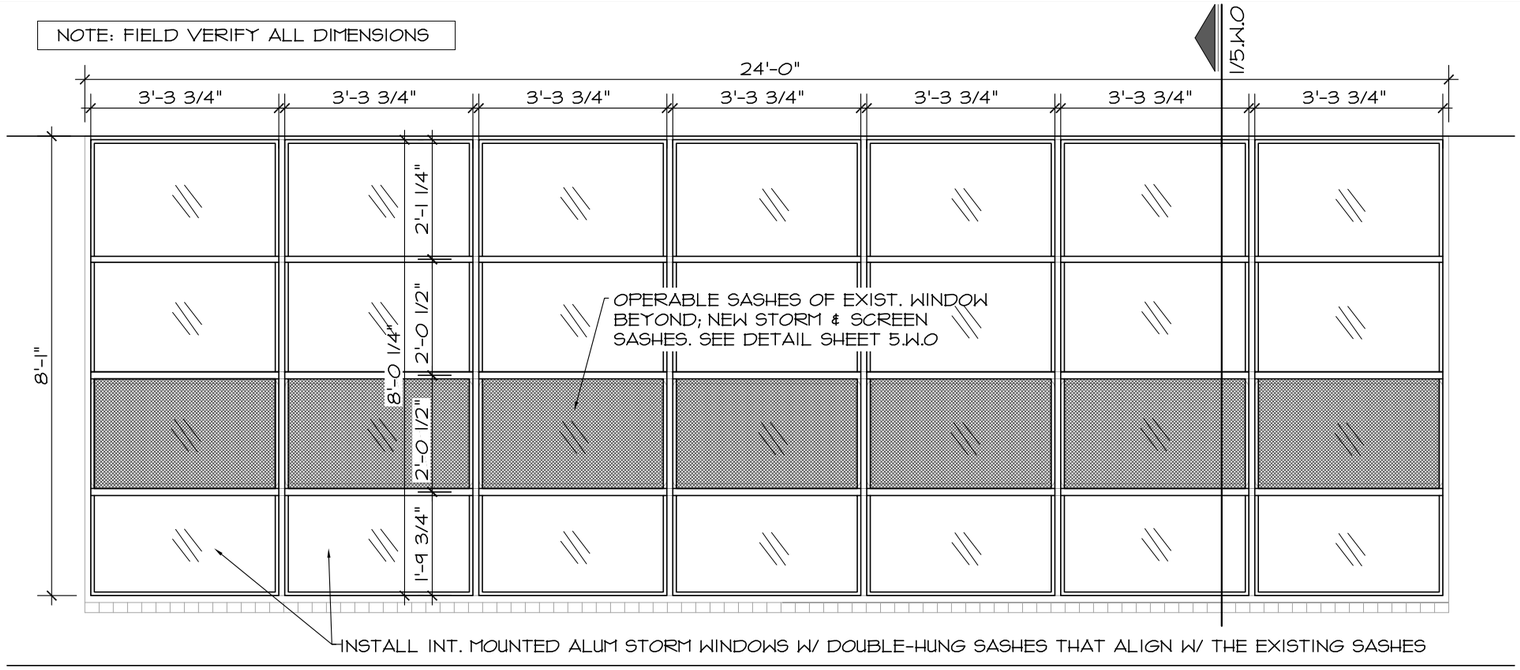
INTERIOR ELEVATIONS (ALTERNATE #1)

3.1.0

FHWA APPROVAL XX-XX-XX		APP'D	XXX
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

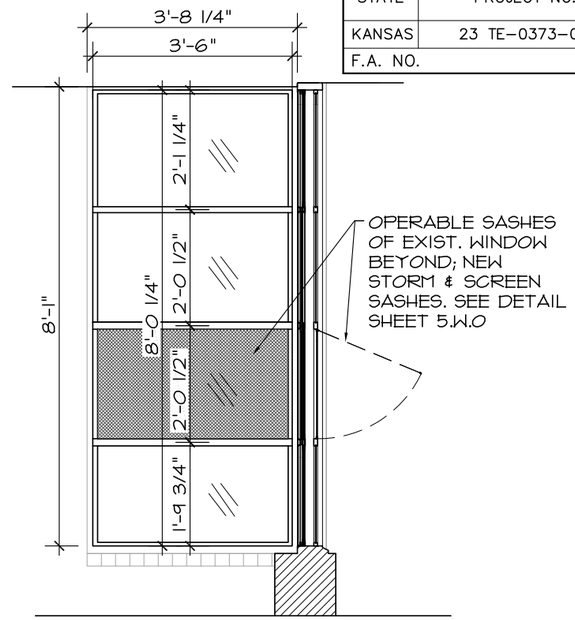
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	32	143
F.A. NO.				

NOTE: FIELD VERIFY ALL DIMENSIONS



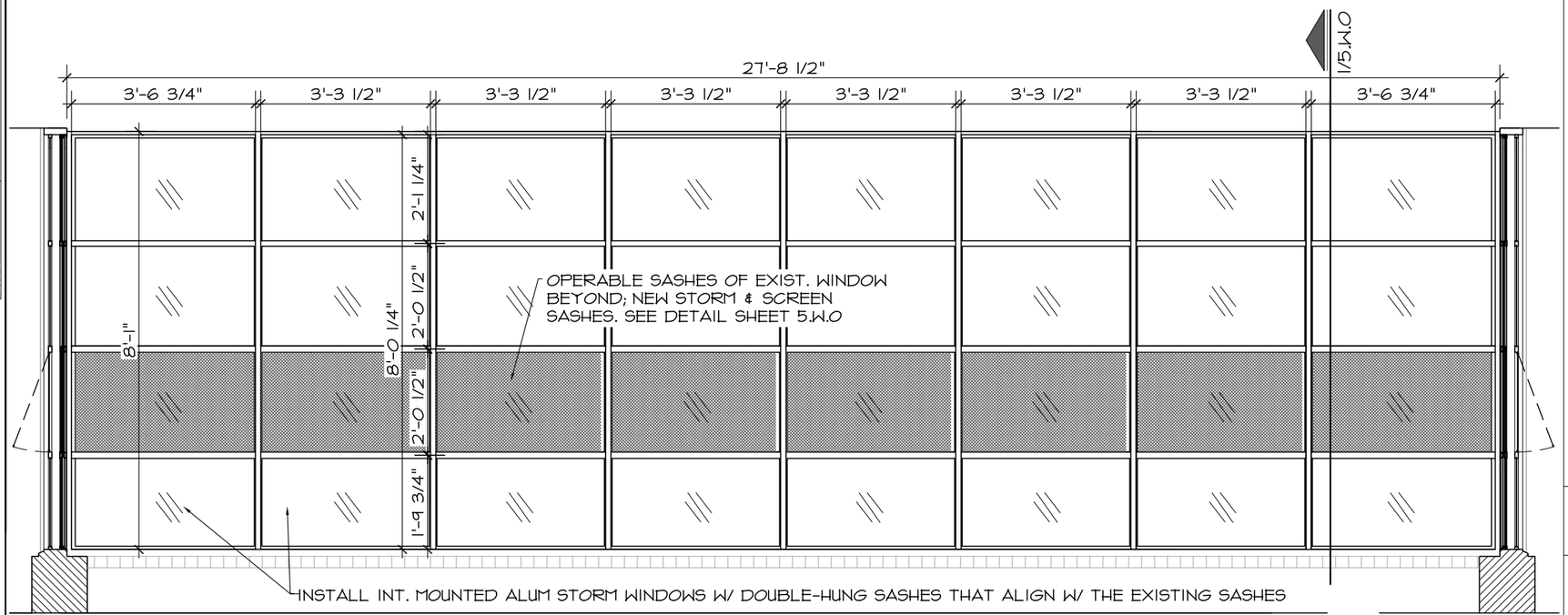
1 SOUTH WINDOW-WALL STORM WINDOWS

3/8" = 1'-0"



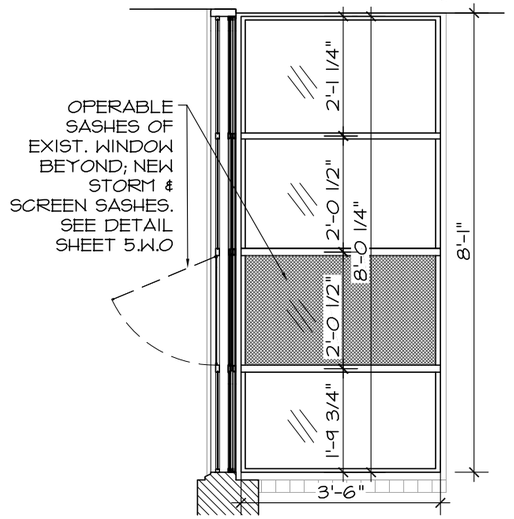
2 NORTHWEST WINDOW-WALL STORM WINDOWS

3/8" = 1'-0"



3 NORTH WINDOW-WALL STORM WINDOWS

3/8" = 1'-0"



4 NORTHEAST WINDOW-WALL STORM WINDOWS

3/8" = 1'-0"

KANSAS DEPARTMENT OF TRANSPORTATION

INTERIOR STORM WINDOW ELEVATIONS

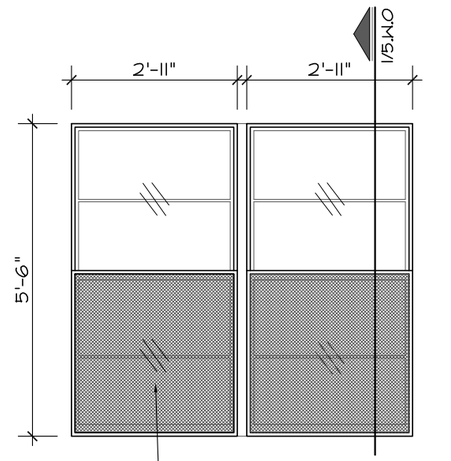
3.W.0

FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

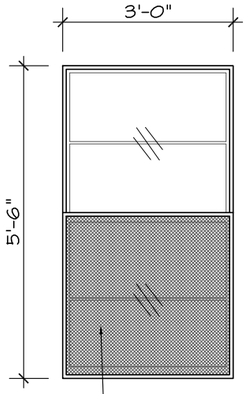
BY	DATE
SURVEYED	
PLOTTED	
INKED	
DESIGNED	
SQUAD	

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	33	143
F.A. NO.				

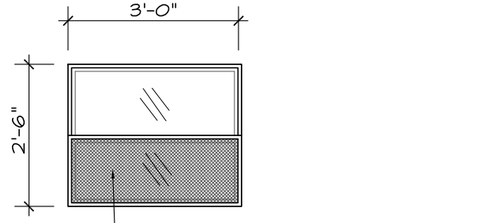
NOTE: FIELD VERIFY ALL DIMENSIONS



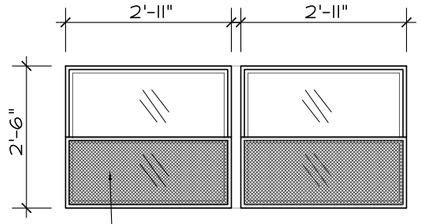
1 WINDOW "A" TYP. ELEV.
3/8" = 1'-0" 4 THUS



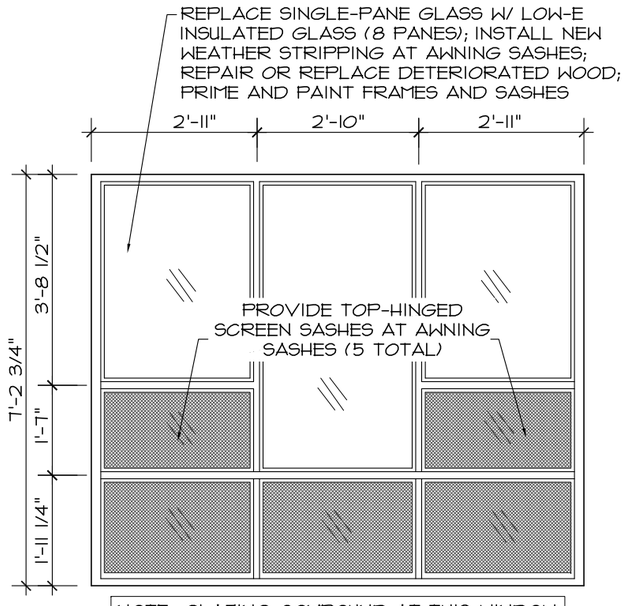
2 WINDOW "B" TYP. ELEV.
3/32" = 1'-0" 1 THUS



3 WINDOW "C" TYP. ELEV.
3/32" = 1'-0" 1 THUS

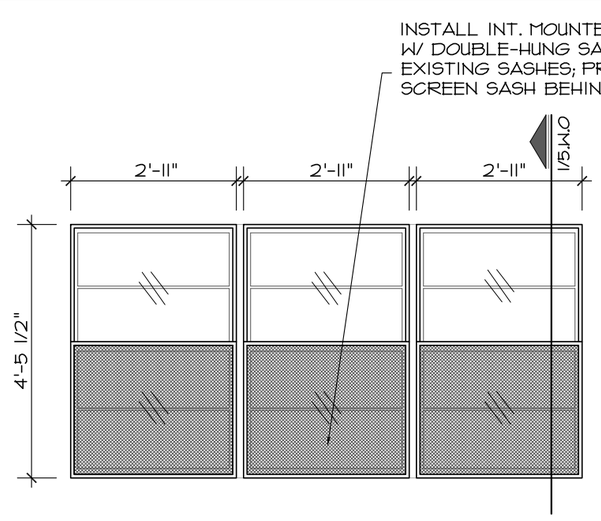


4 WINDOW "D" TYP. ELEV.
3/32" = 1'-0" 2 THUS



NOTE: GLAZING COMPOUND AT THIS WINDOW IS AN ACBM . FOLLOW WORK PROCEDURES OF "ASBESTOS SCREENING REPORT" IN APPENDIX OF PROJECT MANUAL.

5 WINDOW "E" ELEVATION
3/32" = 1'-0" 1 THUS



6 SOUTH FREIGHT OFFICE WINDOW
3/32" = 1'-0"

DATE
BY
SURVEYED
PLOTTED
INKED
DESIGNED
SQUAD

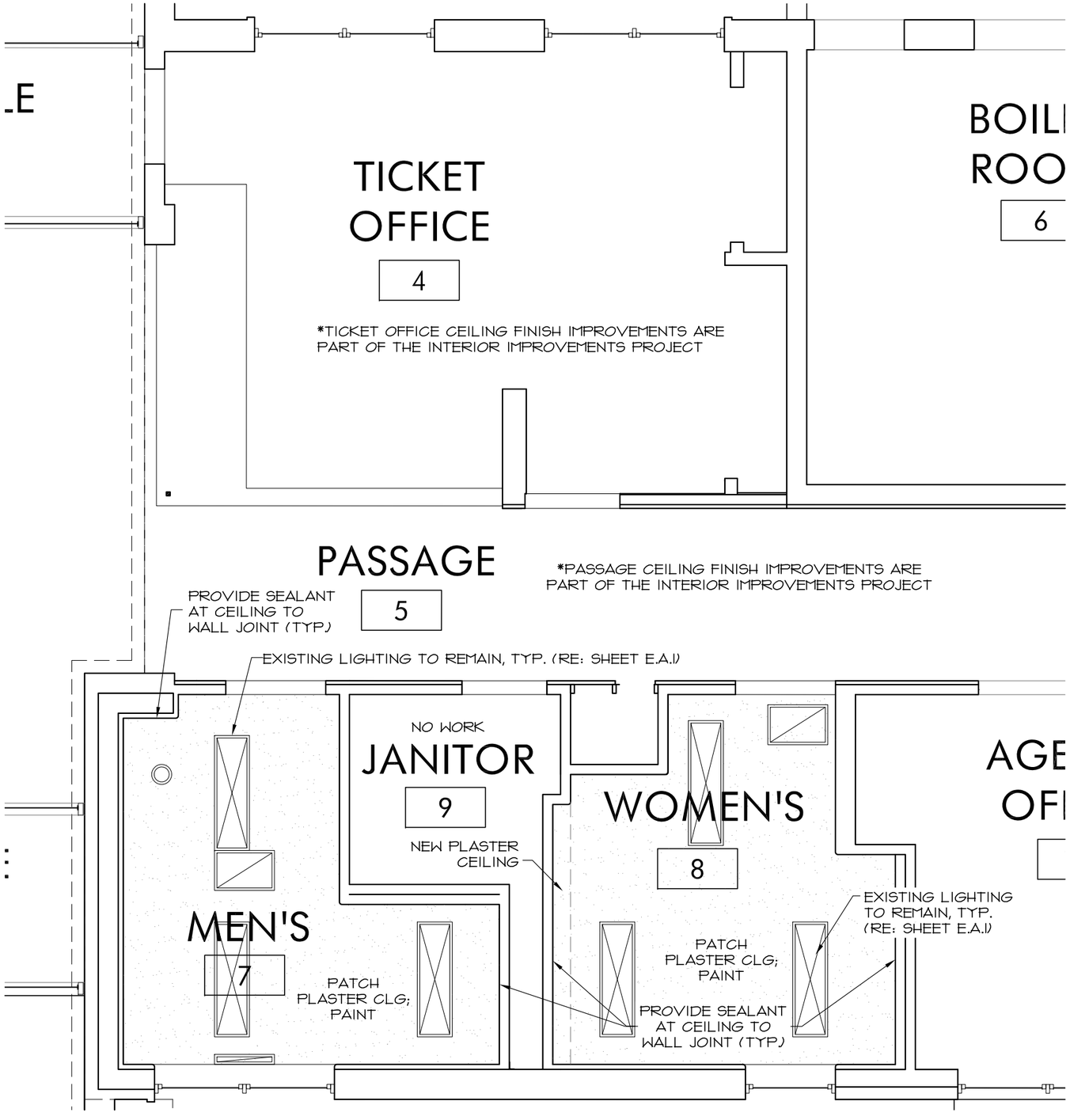
KANSAS DEPARTMENT OF TRANSPORTATION

INTERIOR STORM WINDOW ELEVATIONS

3.W.1

FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	34	143
F.A. NO.				



DATE
BY
SURVEYED
PLOTTED
INKED
DESIGNED
SQUAD

1 REFLECTED CEILING PLAN - BATHROOM 7 & BATHROOM 8

1/4" = 1'-0"

KANSAS DEPARTMENT OF TRANSPORTATION

REFLECTED CEILING PLAN – BATHROOMS

4.A.0

FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	35	143
F.A. NO.				

NOTE:
(1) ALL CANOPY SOFFITS TO BE CLEANED, SKIM COAT PLASTERED, AND PAINTED
(2) PAINT ROOF OVERHANG SOFFITS

(20) SOFFIT LIGHT FIXTURES (RE: SHEET E.5.0)

EXIST. ROOF OVERHANG ABOVE

REPAIR AND PAINT PLASTER AT RUST-STAINED AREA

REMOVE LOOSE PLASTER AND DETERIORATED LATH; PROVIDE NEW LATH AND PLASTER THIS AREA

EXIST. ROOF OVERHANG ABOVE (NO EXTERIOR RESTORATION WORK PROPOSED)

REPAIR PLASTER AT (10) DOUBLE COLUMN LOCATIONS BEING REPLACED (C1 - C10); SEE DETAIL SHEET 5.E.1

FASCIA PANELS TO BE REPLACED AS PART OF THE ROOF RESTORATION PROJECT

3/5.E.1

(3) CANOPY DOWNSPOUTS TO BE REPAIRED AS PART OF THE ROOF RESTORATION PROJECT

PLAN NORTH

TRUE NORTH

1 REFLECTED CEILING PLAN - ROOF AND CANOPY

1/8" = 1'-0"

DATE | BY | SURVEYED | PLOTTED | INKED | DESIGNED | SQUAD

KANSAS DEPARTMENT OF TRANSPORTATION

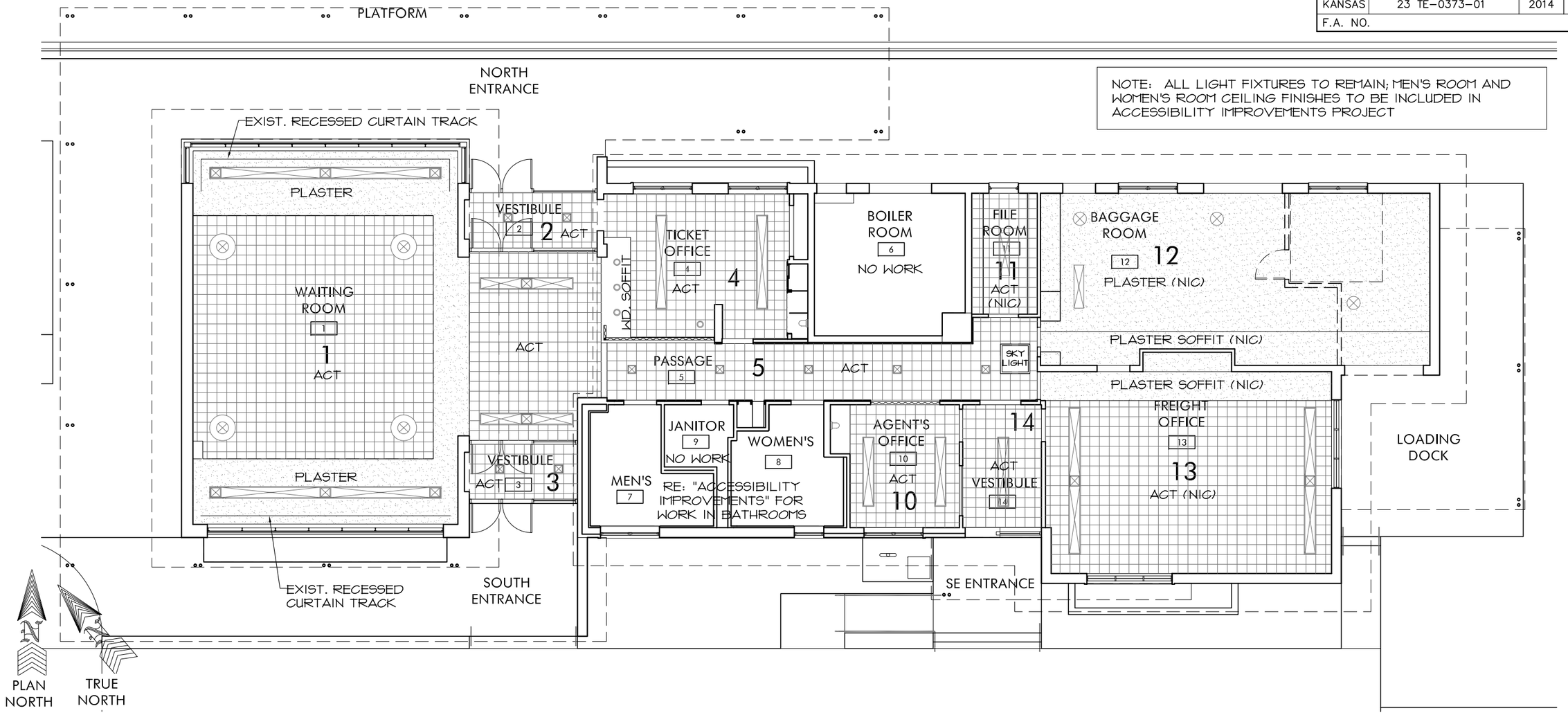
REFLECTED CEILING PLAN & ROOF CANOPY

4.E.0

FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	36	143
F.A. NO.				

NOTE: ALL LIGHT FIXTURES TO REMAIN; MEN'S ROOM AND WOMEN'S ROOM CEILING FINISHES TO BE INCLUDED IN ACCESSIBILITY IMPROVEMENTS PROJECT



DATE
BY
SURVEYED
PLOTTED
INKED
DESIGNED
SQUAD

1 REFLECTED CEILING PLAN

3/32" = 1'-0"

NOTES:

1. 12x12 fissured ACT, some original, (1) missing tile; Ptd. plaster w/ some damage -- Replace tile w/ new tile to match original. Patch and paint plaster to match original.
2. 24x48 fissured ACT, not original -- Replace w/ new 12x12 fissured tile to match original.
3. 24x48 fissured ACT, not original-- Replace w/ new 12x12 fissured tile to match original.
4. 12x12 fissured ACT w/ some staining and damage -- Replace damaged tiles to match existing, prime and paint entire ceiling.
5. 24x48 fissured ACT, not original -- Replace w/ new 12x12 fissured tile to match original.
10. 24x48 fissured ACT, not original -- Replace w/ new 12x12 fissured tile to match original.
11. (NIC) 12x12 fissured ACT w/ some staining and damage -- Replace damaged tiles to match existing, prime and paint entire ceiling.
12. (NIC) Ptd. plaster on metal lath, w/ some water damage -- Repair damaged area and paint entire ceiling.
13. 24x48 fissured ACT, not original -- (NIC) Replace w/ new 12x12 fissured tile to match original; Patch and paint plaster fur-down.
14. 24x48 fissured ACT, not original -- Replace w/ new 12x12 fissured tile to match original.

CEILING RESTORATION NOTES

KANSAS DEPARTMENT OF TRANSPORTATION

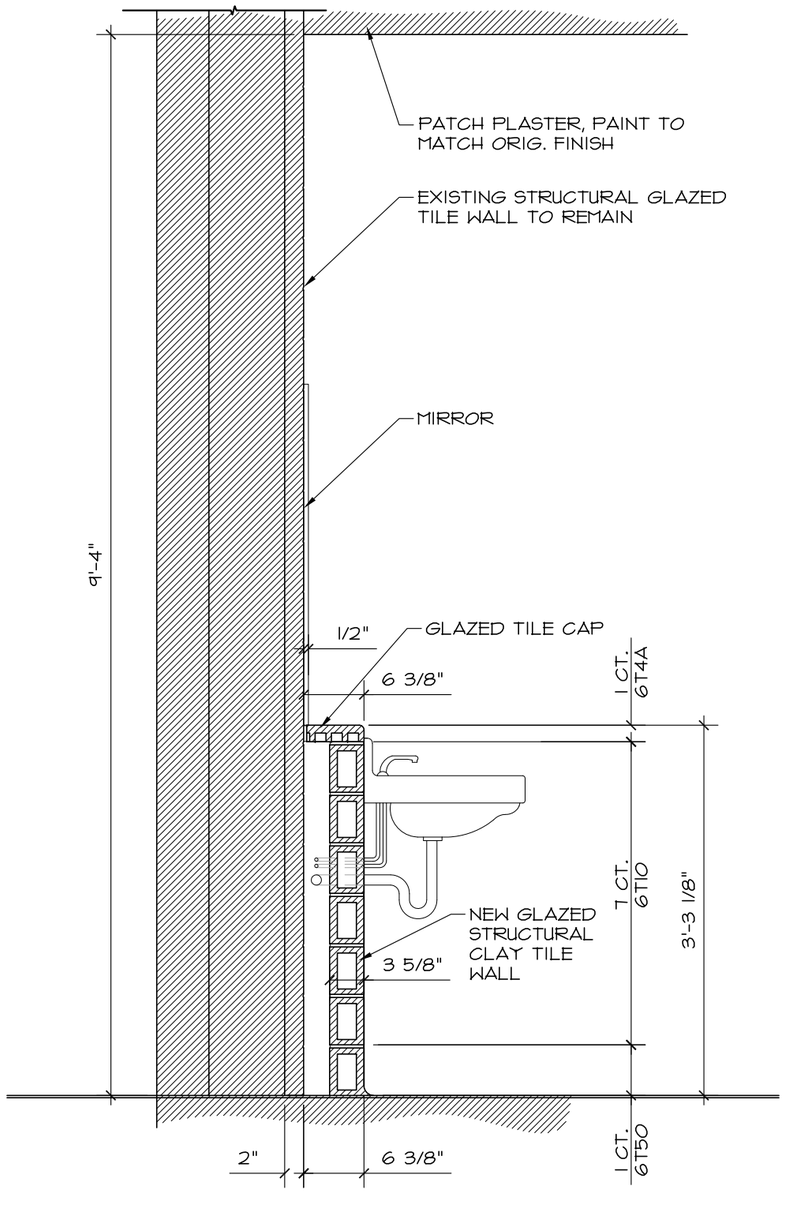
REFLECTED CEILING PLAN (ALTERNATE #1)

4.1.0

FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

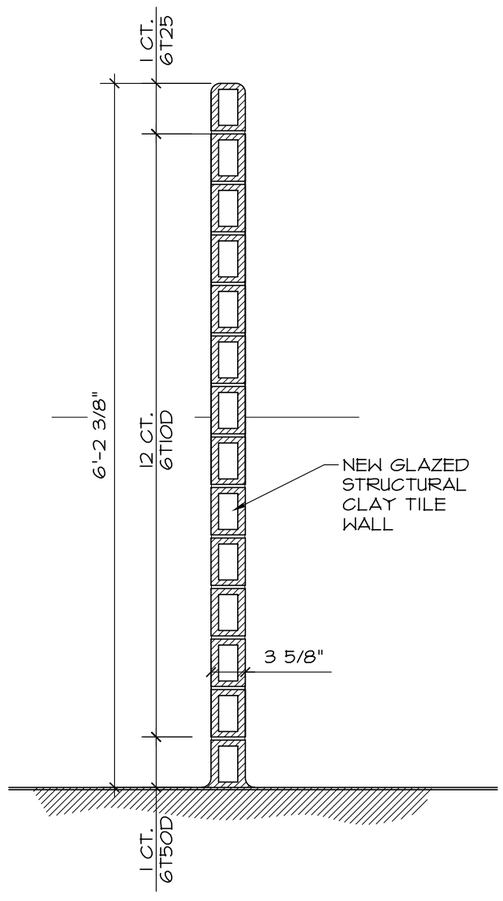
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	37	143
F.A. NO.				

DATE
BY
SURVEYED
PLOTTED
INKED
DESIGNED
SQUAD



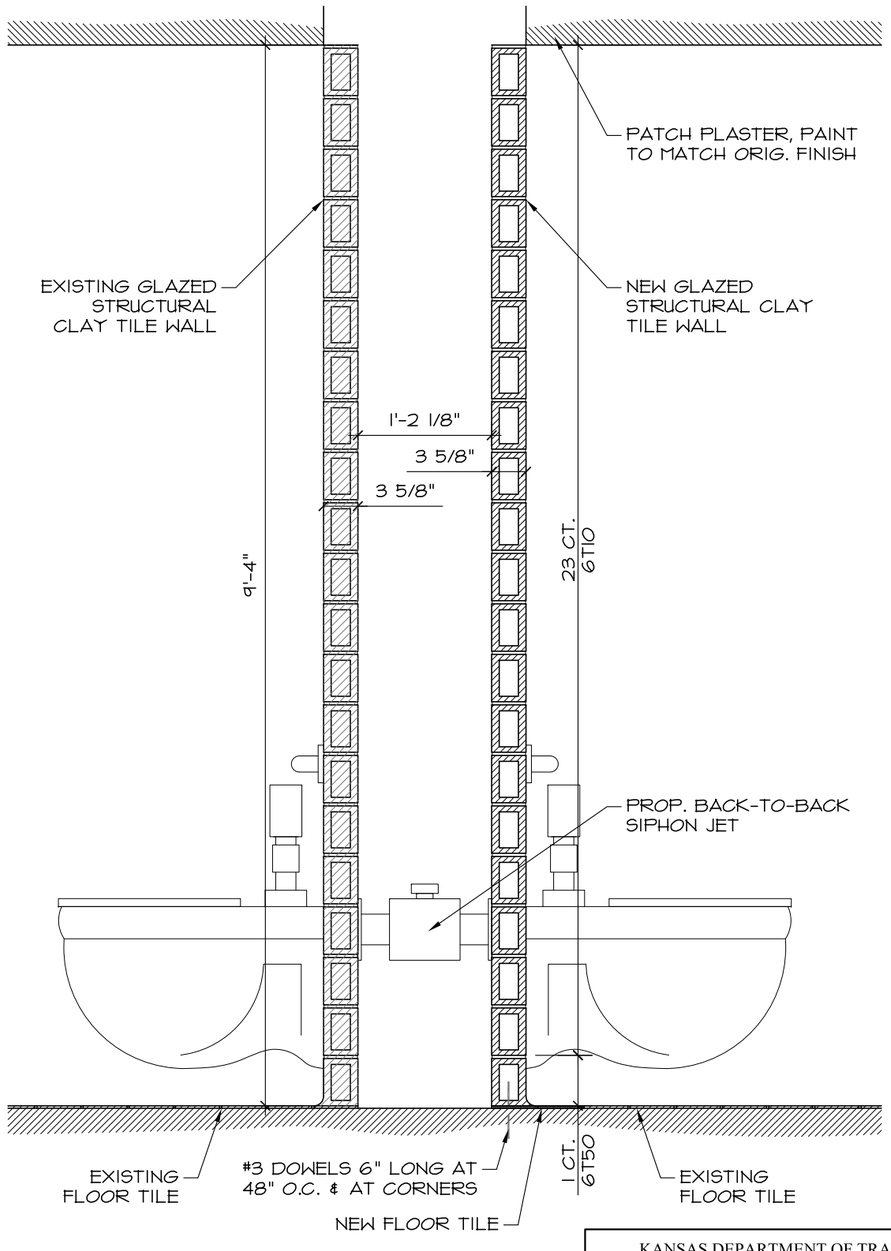
1 TILE WALL SECTION

3/4" = 1'-0"



2 TILE WALL SECTION

3/4" = 1'-0"



3 TILE WALL SECTION

3/4" = 1'-0"

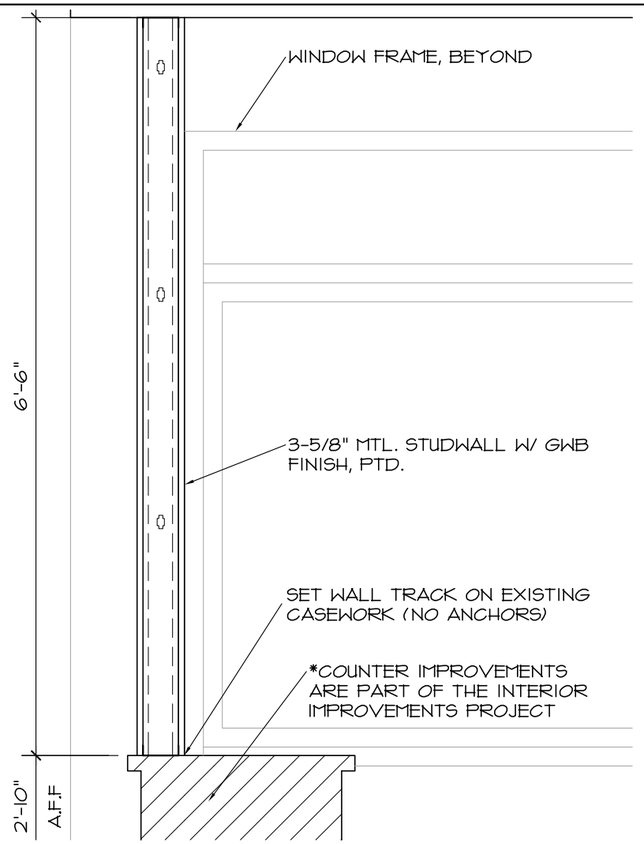
KANSAS DEPARTMENT OF TRANSPORTATION

STRUCTURAL CLAY TILE WALL SECTIONS

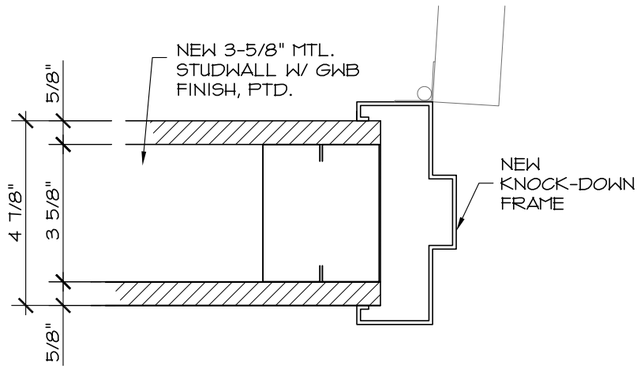
5.A.0

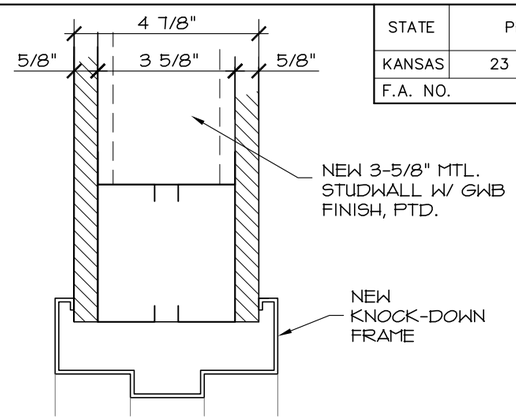
FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	38	143
F.A. NO.				

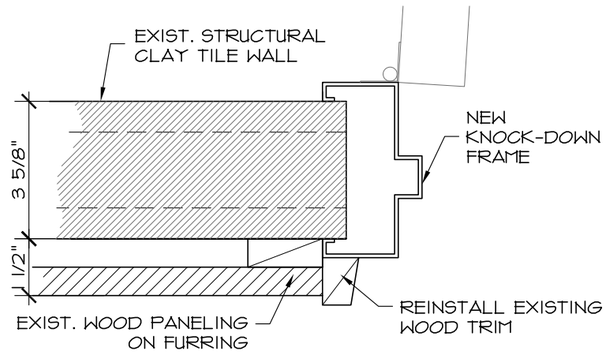


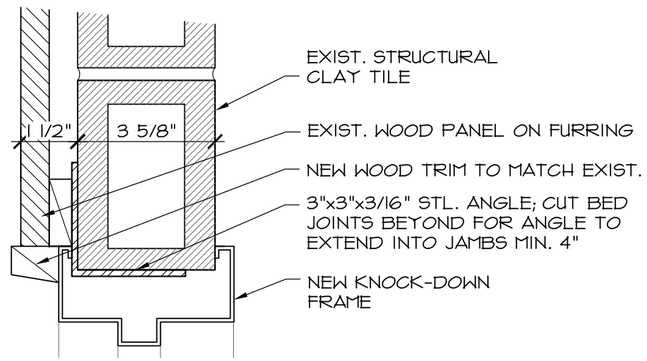
3 WALL SECTION
3/4" = 1'-0"





1 TYP K.D. JAMB AND HEAD DETAILS
3/4" = 1'-0" TYP. AT STUDWALL





2 TYP K.D. JAMB AND HEAD DETAILS
3/4" = 1'-0" TYP. AT TILE WALL

DATE | BY | SURVEYED | PLOTTED | INKED | DESIGNED | SQUAD

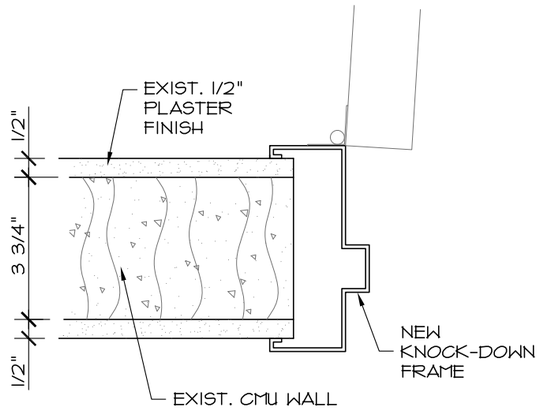
KANSAS DEPARTMENT OF TRANSPORTATION

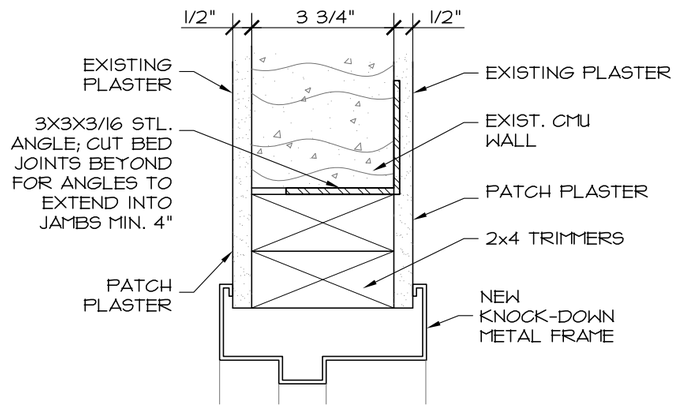
SECTION, JAMB, HEAD & CONC. DETAILS

5.A.1

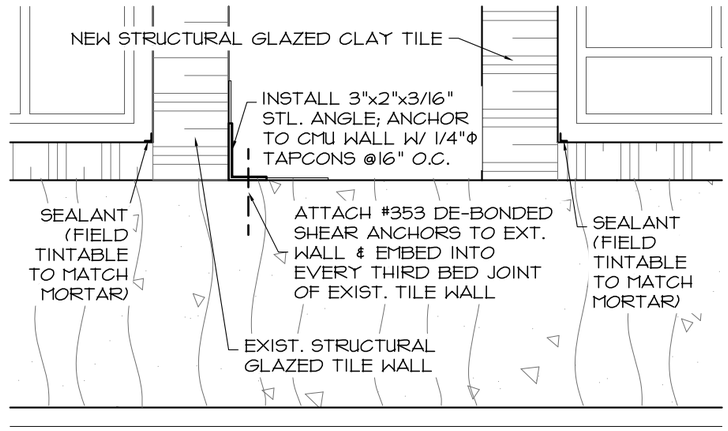
FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	39	143
F.A. NO.				

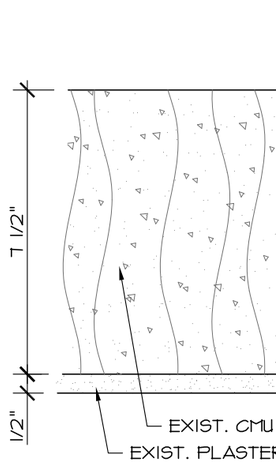


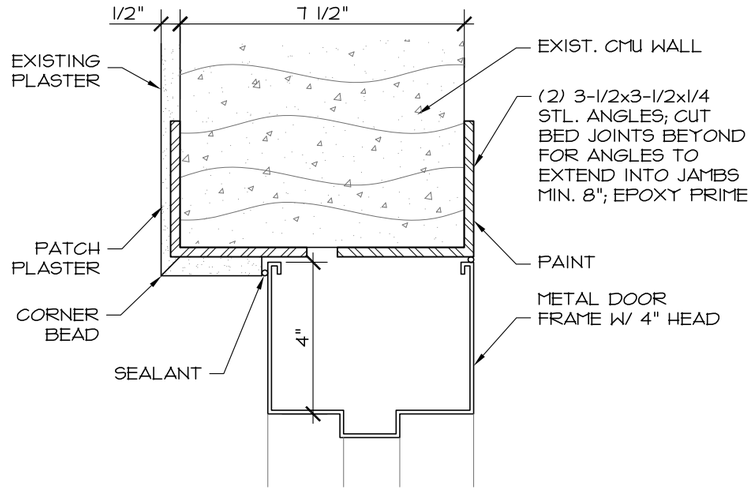


1 JAMB AND HEAD DETAILS
3" = 1'-0" TYP. AT 3 3/4"BLOCK WALL

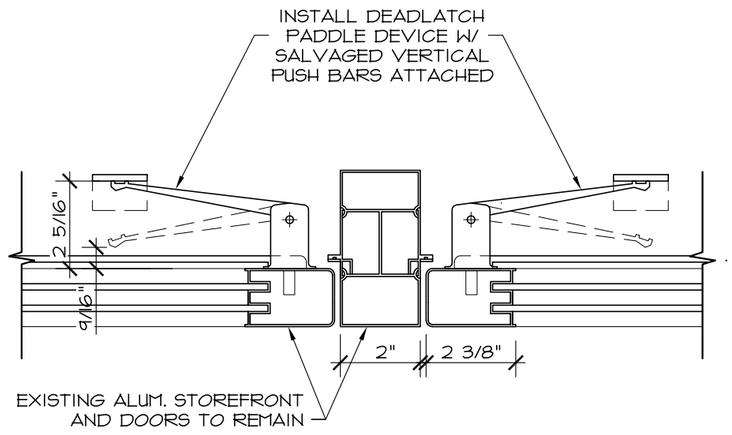


3 WALL SUPPORT DETAIL
1-1/2" = 1'-0"





2 TYP. K.D. JAMB AND HEAD DETAILS
3" = 1'-0" TYP. AT 7 1/2" BLOCK WALL



4 PANIC HARDWARE DETAIL
1-1/2" = 1'-0"

DATE | BY | SURVEYED | PLOTTED | INKED | DESIGNED | SQUAD

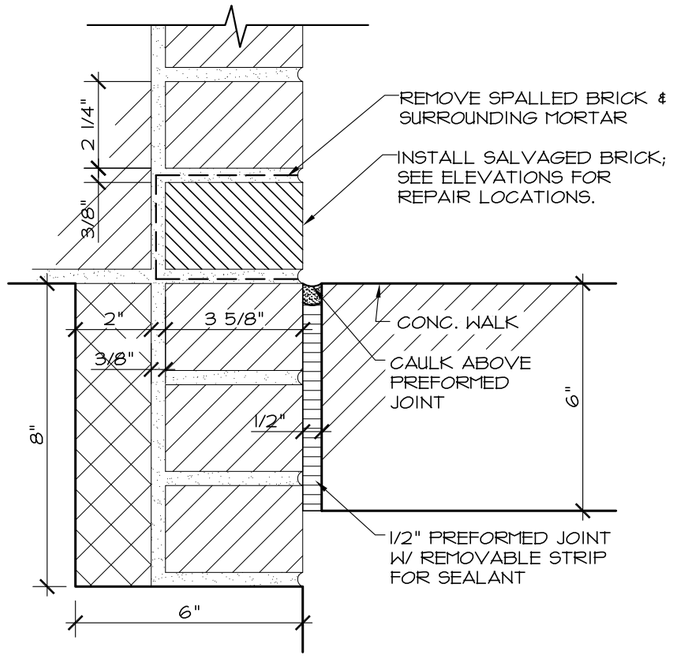
KANSAS DEPARTMENT OF TRANSPORTATION

JAMB, HEAD, WALL SUPPORT, PANIC DETAILS

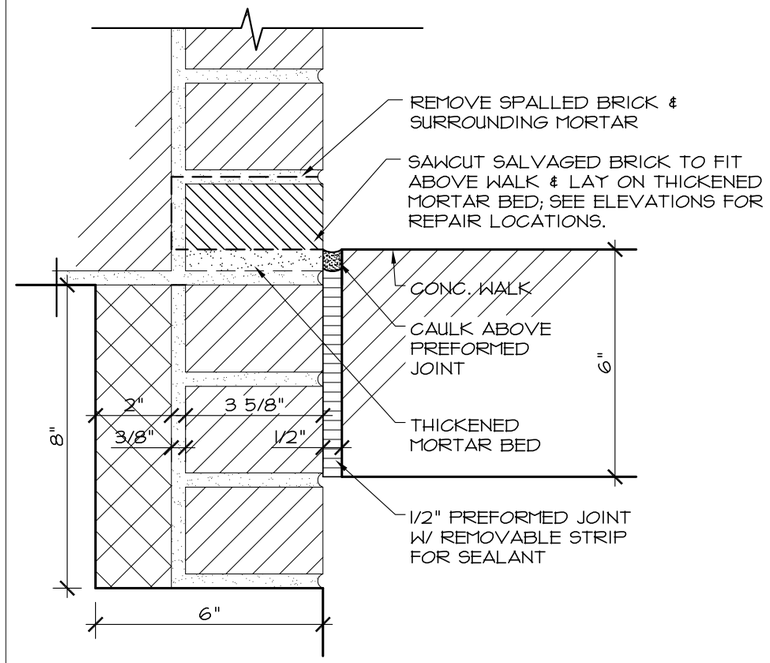
5.A.2

FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	40	143
F.A. NO.				

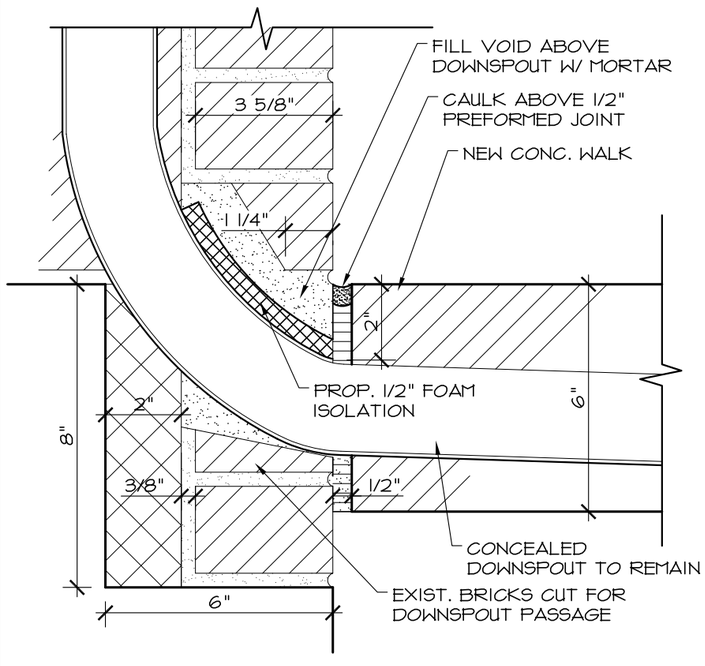


1 BRICK REPLACEMENT DTL
3" = 1'-0" ABOVE GRADE



2 BRICK REPLACEMENT DTL
3" = 1'-0" BELOW GRADE

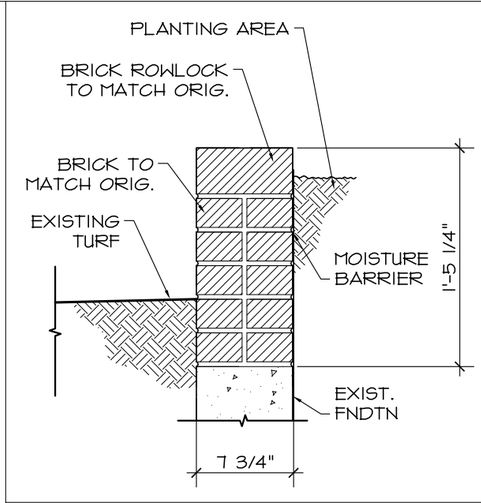
5 NOT USED



3 BRICK REPLACEMENT DTL
3" = 1'-0" AT INTERNAL DOWNSPOUT

4 NOT USED

6 NOT USED



7 PLANTER DTL
1" = 1'-0"

KANSAS DEPARTMENT OF TRANSPORTATION

BRICK, STONE & CONCRETE DETAILS

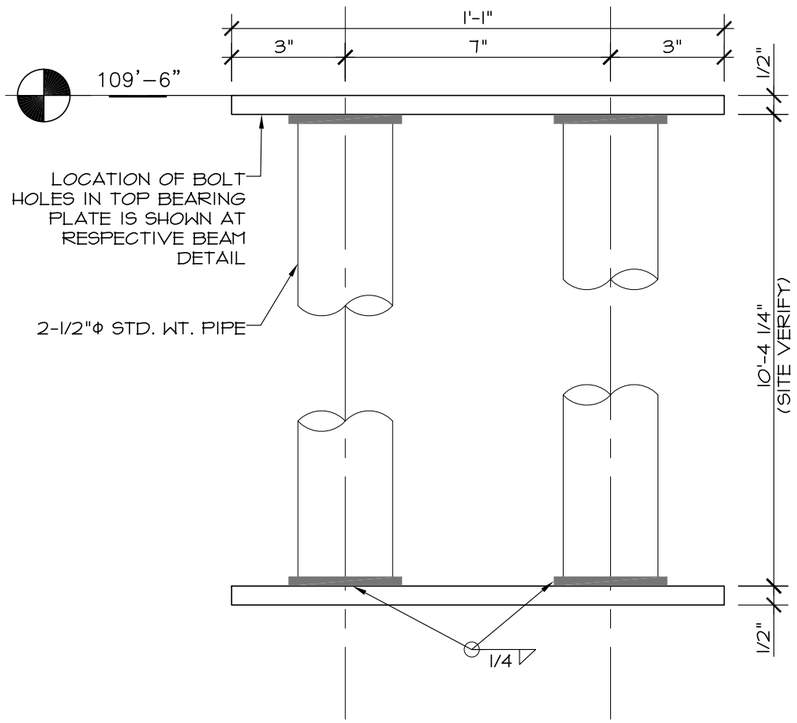
5.E.0

FHWA APPROVAL XX-XX-XX		APP'D	XXX
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

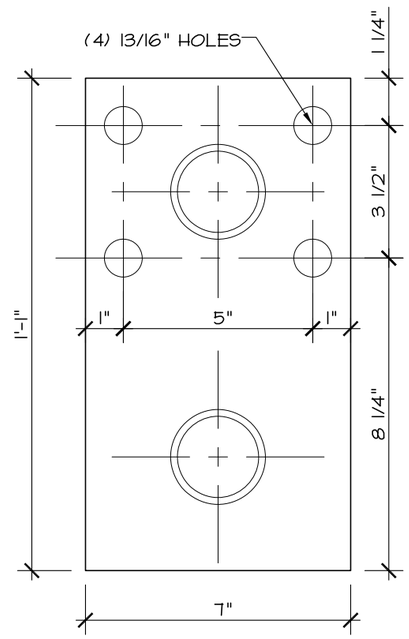
BY	DATE
SURVEYED	
PLOTTED	
INKED	
DESIGNED	
SQUAD	

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	41	143
F.A. NO.				

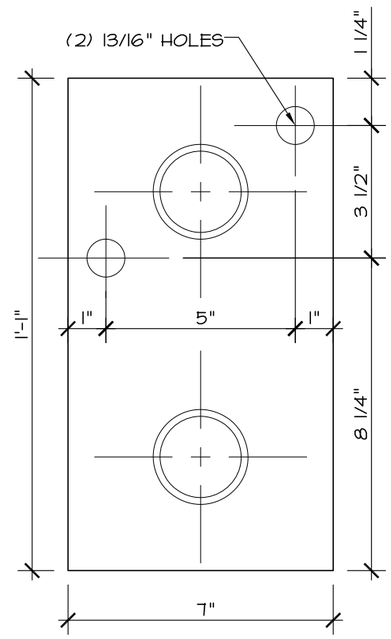
ALL STEEL IS SUBJECT TO
"BUY AMERICA" PROVISIONS



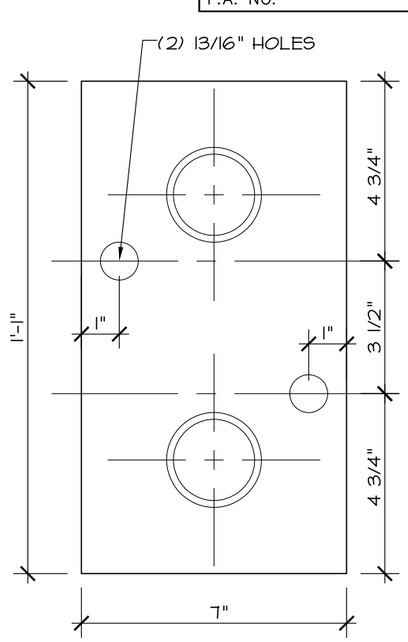
ALL STEEL IS SUBJECT TO
"BUY AMERICA" PROVISIONS



C1, C2



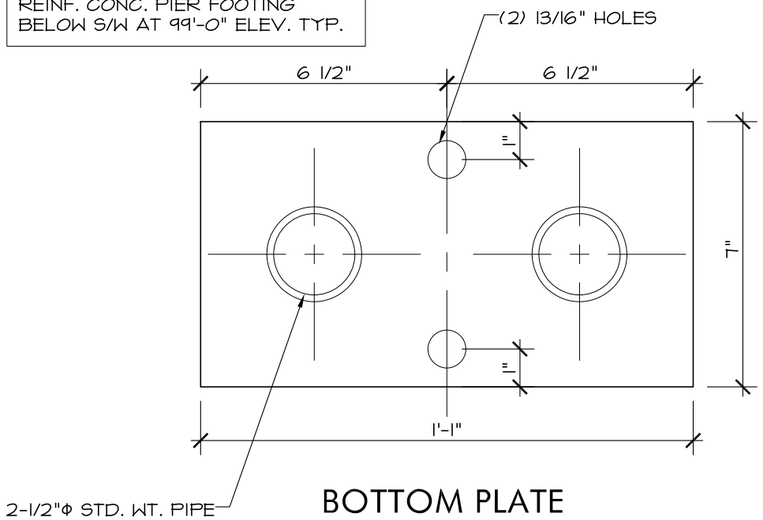
C3, C8, C10



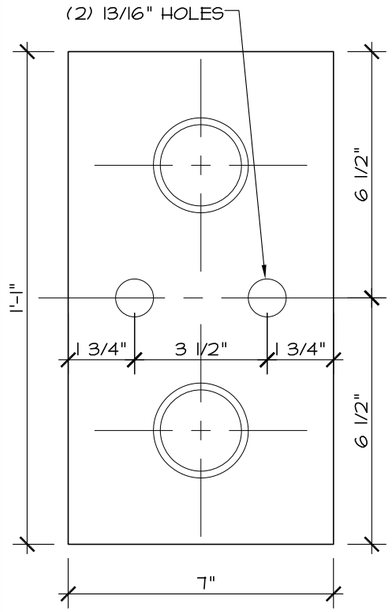
C4, C5, C6, C9

NOTE: REFER TO I.E.0 & I.E.1 FOR COLUMN LOCATIONS

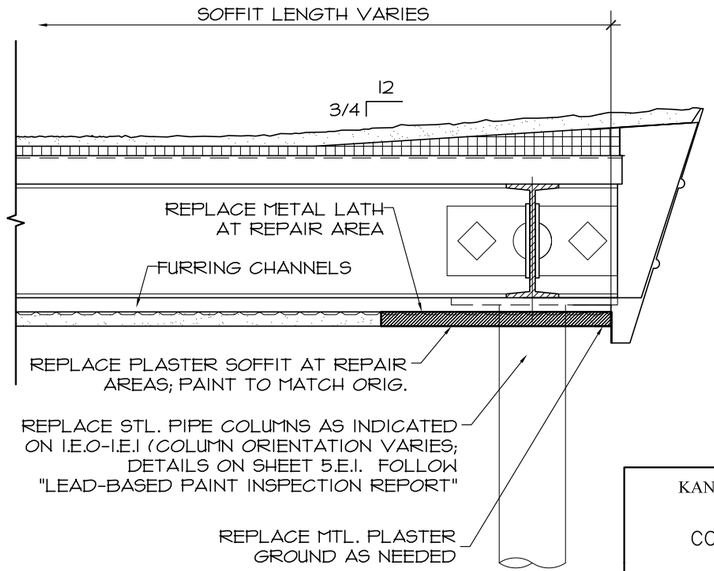
ATTACH BOTTOM PLATE TO EXIST. REINF. CONC. PIER FOOTING BELOW S/W AT 99'-0" ELEV. TYP.



BOTTOM PLATE



C7



KANSAS DEPARTMENT OF TRANSPORTATION

COLUMN DETAILS, SOFFIT SECTION

5.E.1

FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

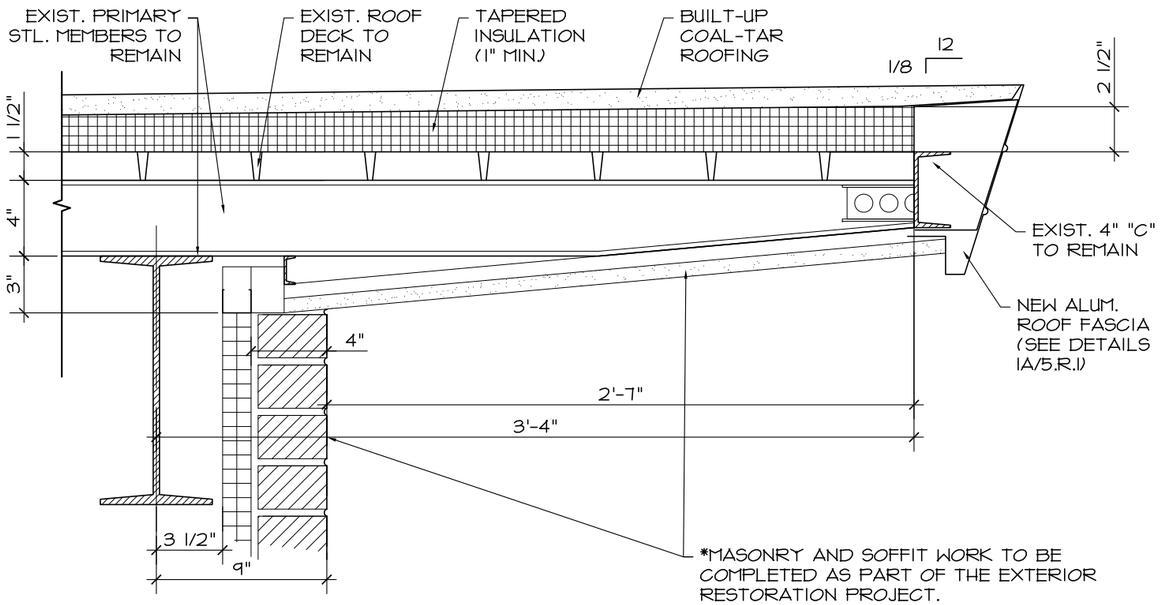
DATE	BY
SURVEYED	
PLOTTED	
INKED	
DESIGNED	
SQUAD	

1 TYP. COLUMN DETAILS
3" = 1'-0"

2 TOP PLATE DTL
3" = 1'-0"

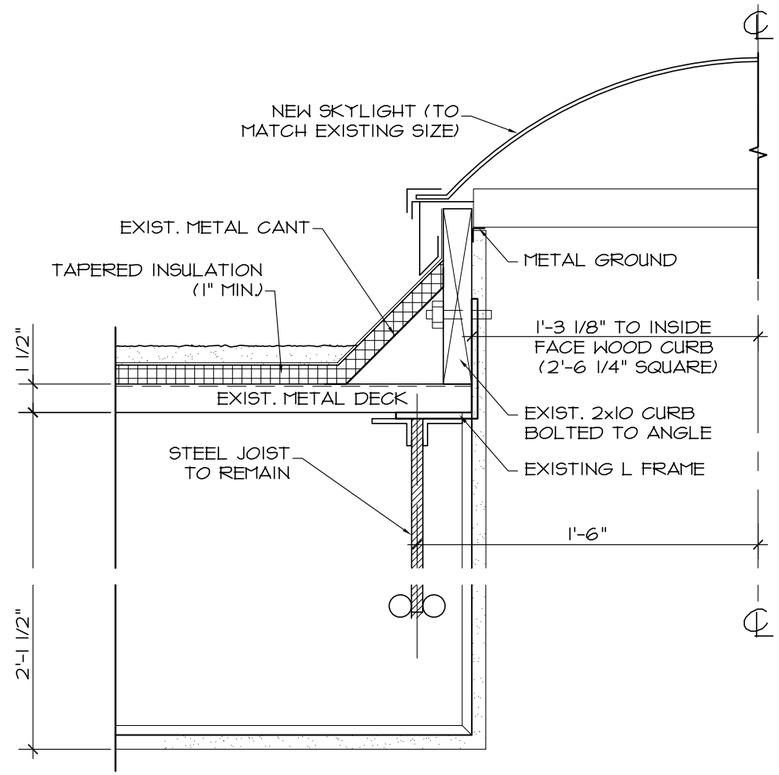
3 CANOPY SOFFIT DTL, TYP.
1-1/2" = 1'-0"

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	42	143
F.A. NO.				



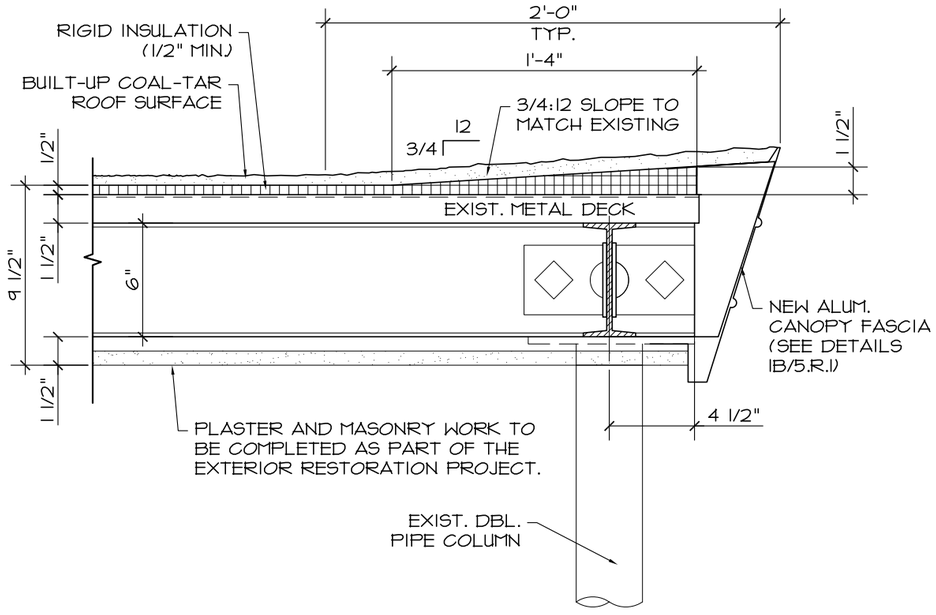
1 ROOF SECTION

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



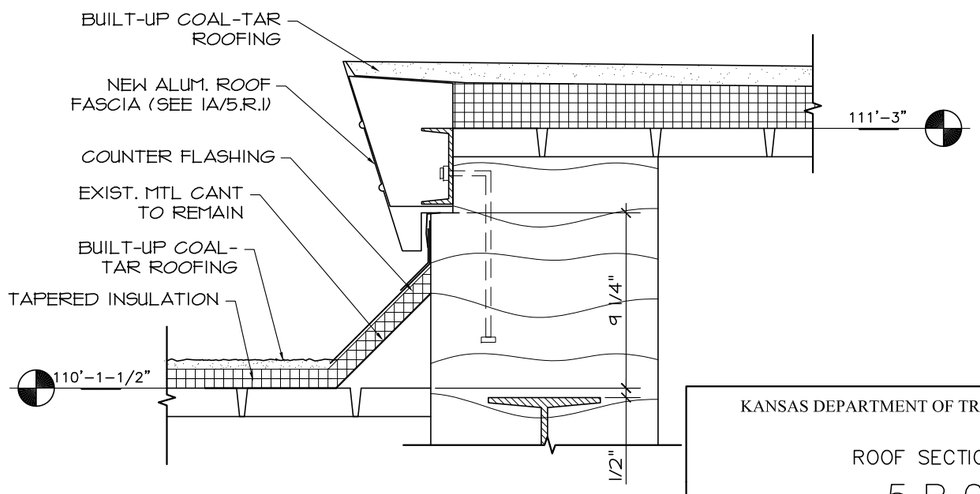
3 SKYLIGHT DETAIL

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



2 ROOF SECTION - CANOPY

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



4 ROOF SECTION DETAIL

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

KANSAS DEPARTMENT OF TRANSPORTATION

ROOF SECTIONS

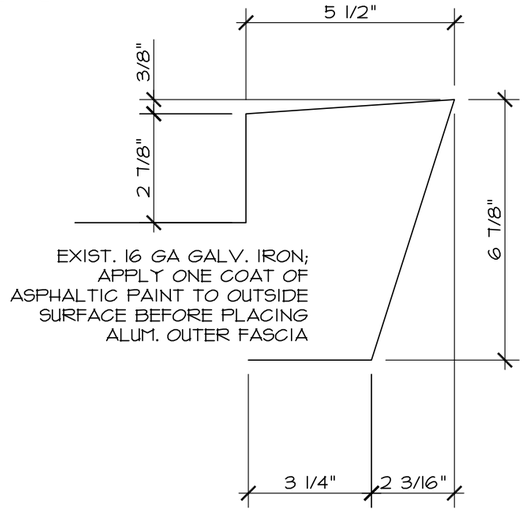
5.R.0

FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

DATE | BY | SURVEYED | PLOTTED | INKED | DESIGNED | SQUAD

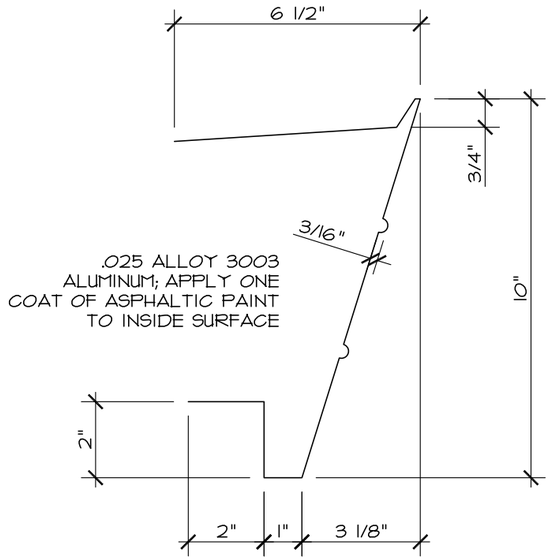
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	43	143
F.A. NO.				

A



EXIST. ROUGH (INNER) FASCIA

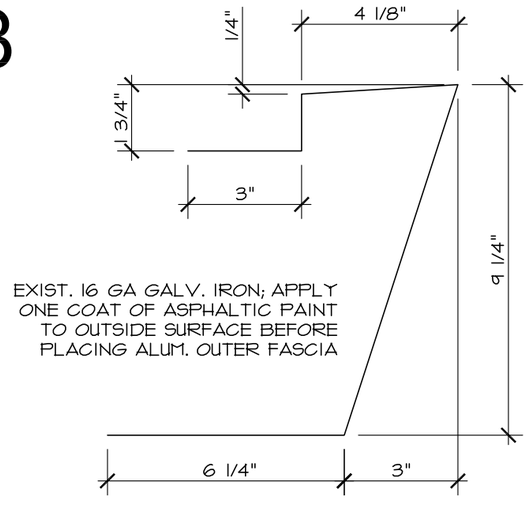
TYPICAL AT ALL ROOF OVERHANGS
REPAIR AS NECESSARY



NEW FINISH (OUTER) FASCIA

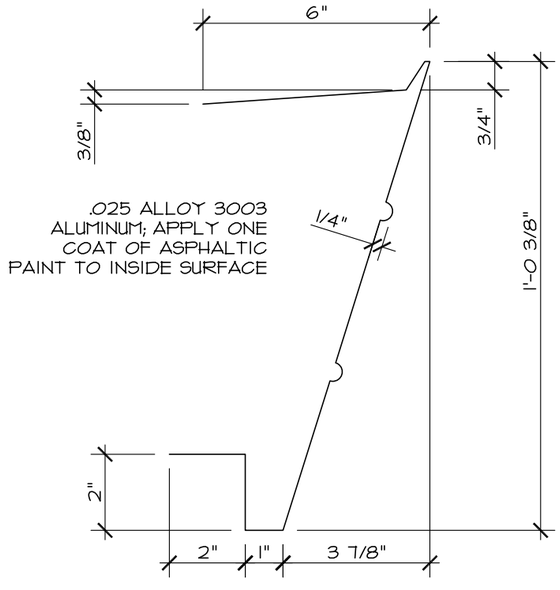
TYPICAL AT ALL ROOF OVERHANGS
DETAIL MATCHES EXISTING FASCIA

B



EXIST. ROUGH (INNER) FASCIA

TYPICAL AT ALL CANOPIES
REPAIR AS NECESSARY

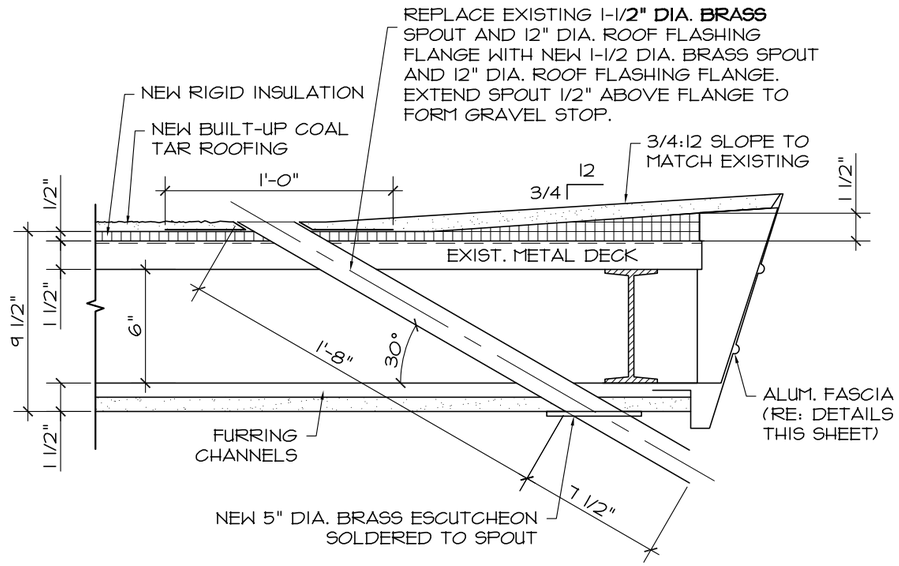


NEW FINISH (OUTER) FASCIA

TYPICAL AT ALL CANOPIES
DETAIL MATCHES EXISTING FASCIA

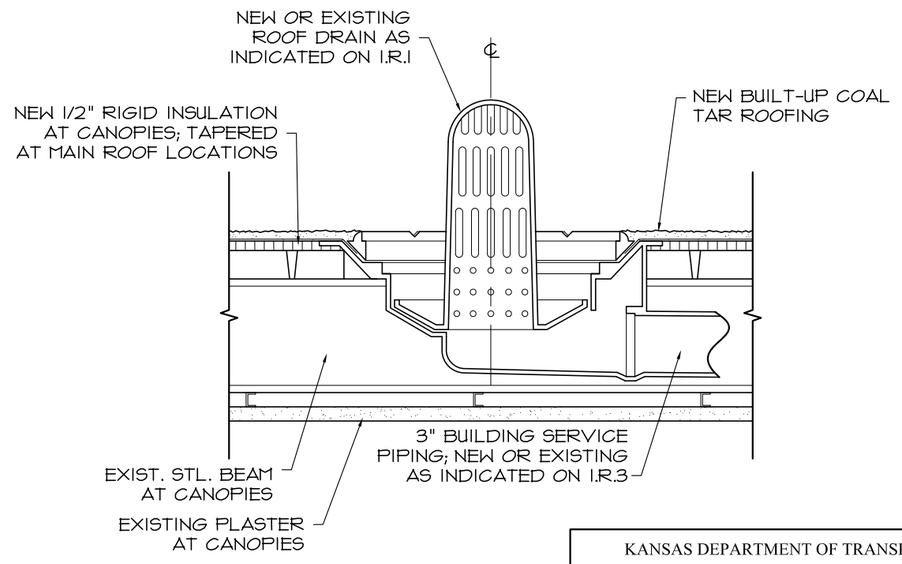
1 PROPOSED FASCIA DETAILS

3" = 1'-0"



2 WATER SPOUT DETAIL - CANOPIES

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



3 ROOF DRAIN DETAIL

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

KANSAS DEPARTMENT OF TRANSPORTATION

FASCIA, WATER SPOUT, ROOF DRAIN DETAILS

5.R.1

FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

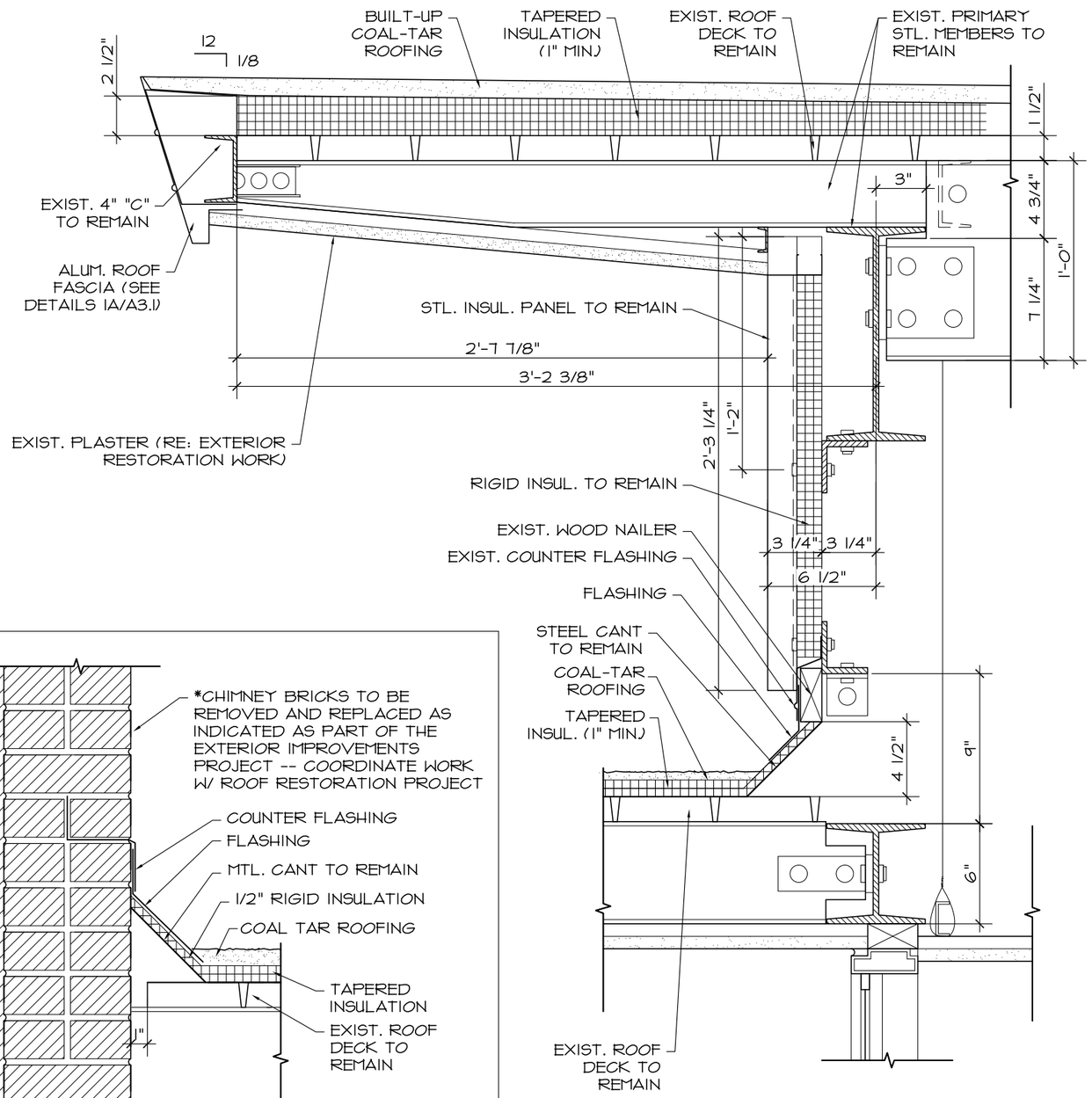
BY	DATE
SURVEYED	
PLOTTED	
INKED	
DESIGNED	
SQUAD	

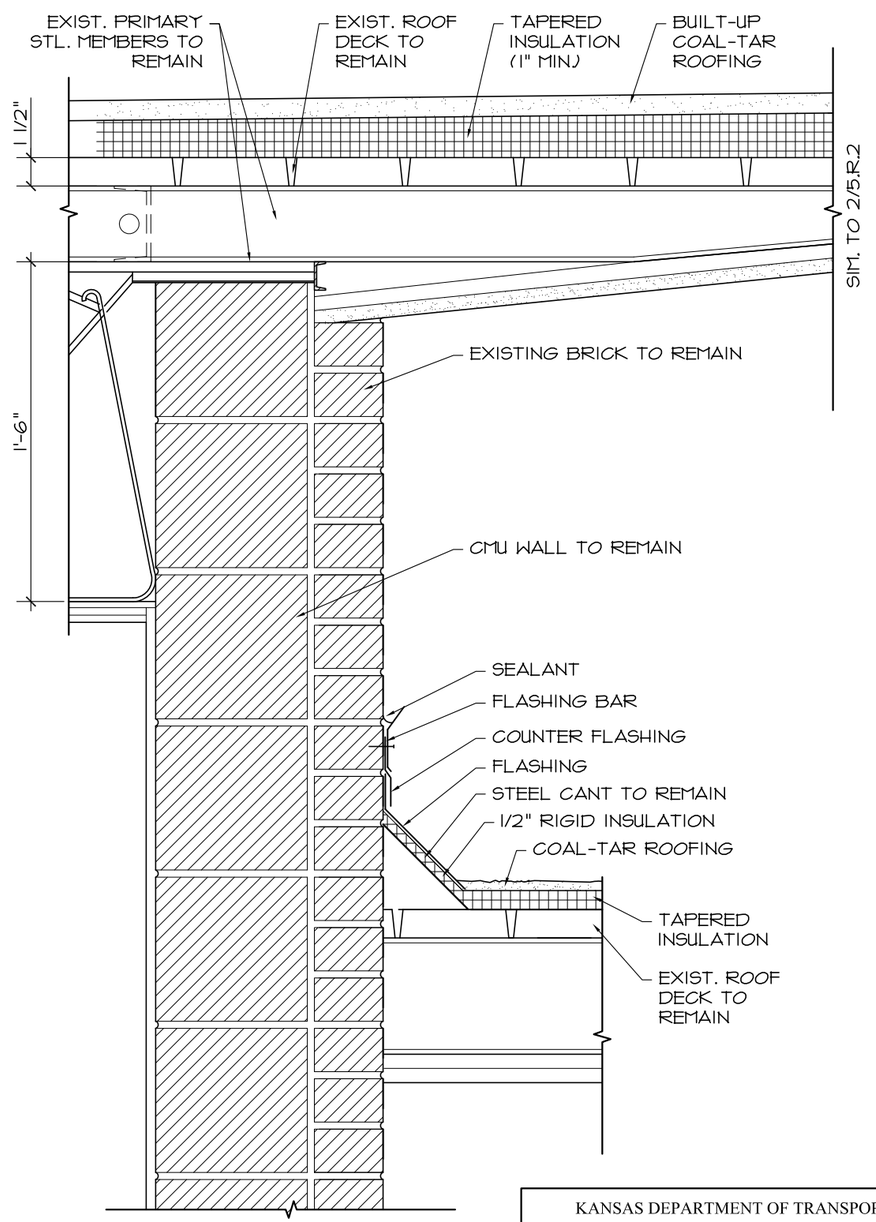
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	44	143
F.A. NO.				

DATE

BY

SURVEYED
PLOTTED
INKED
DESIGNED
SQUAD





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

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

3 ROOF SECTION
1-1/2" = 1'-0"

KANSAS DEPARTMENT OF TRANSPORTATION

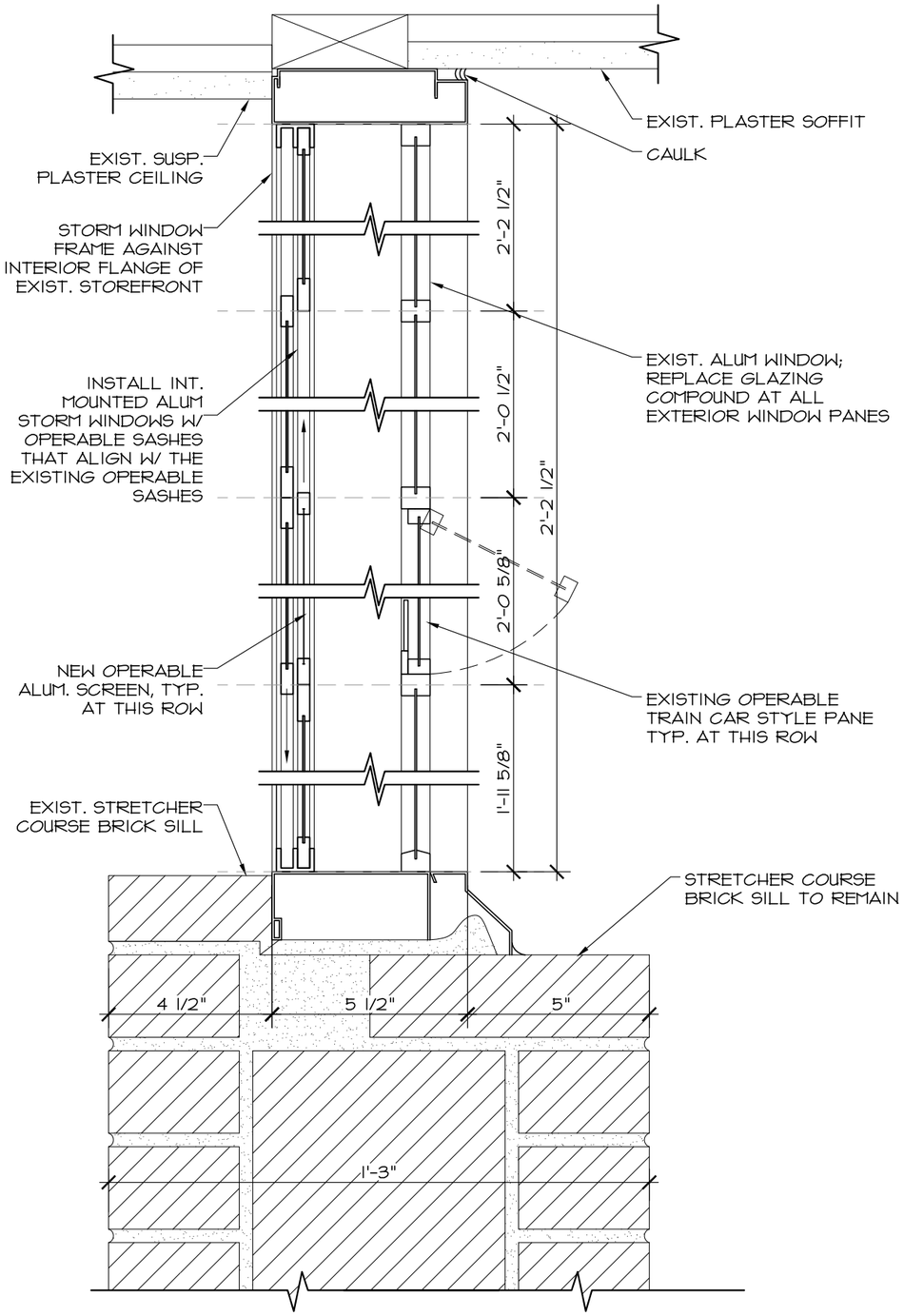
ROOF AND CHIMNEY SECTIONS

5.R.2

FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

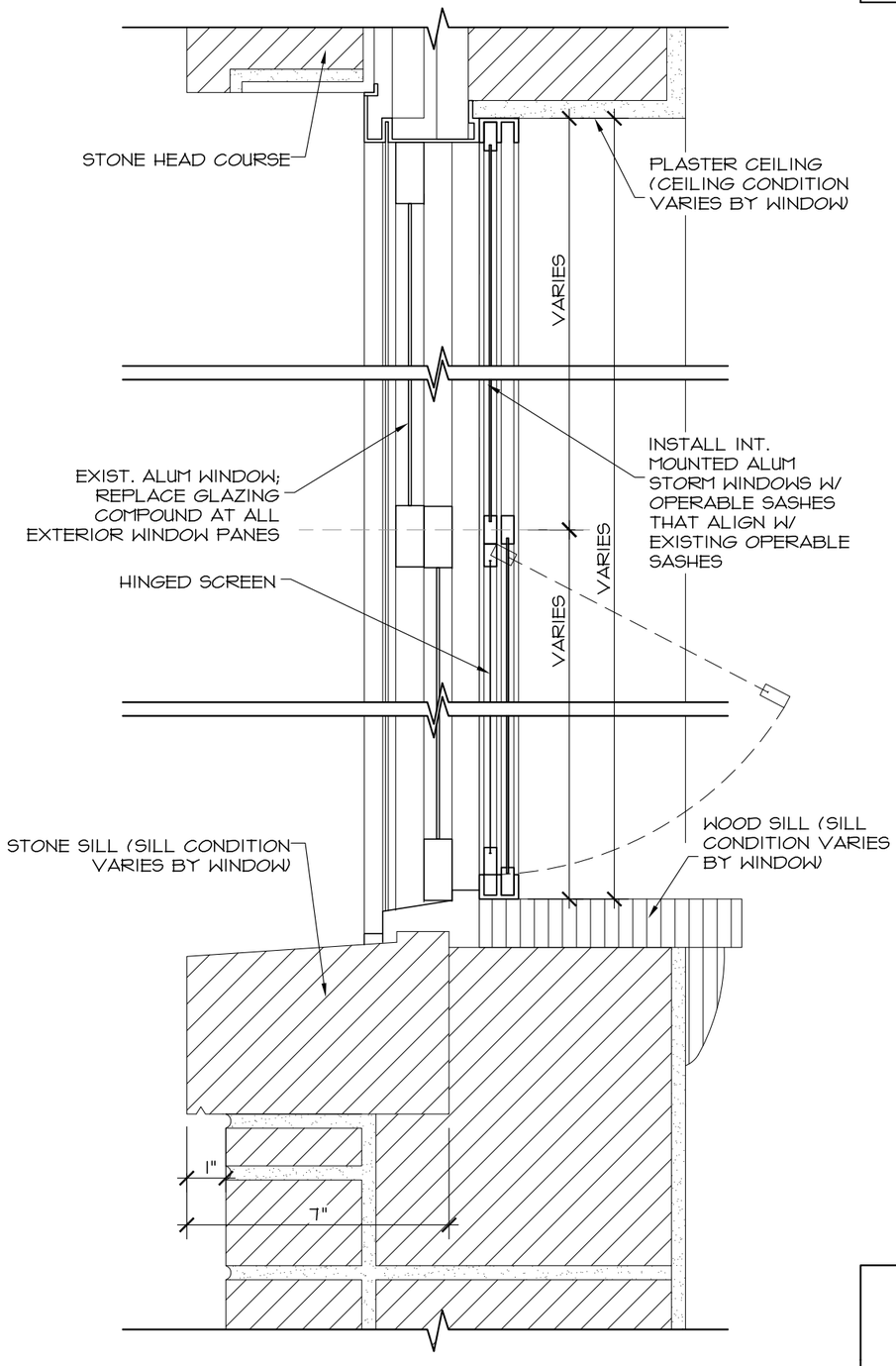
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	45	143
F.A. NO.				

DATE
BY
SURVEYED
PLOTTED
INKED
DESIGNED
SQUAD



1 STORM WINDOW SECTION

3" = 1'-0" TYP. AT ALUM. STOREFRONT



2 STORM WINDOW SECTION

3" = 1'-0" TYP. AT ALL OTHER LOCATIONS

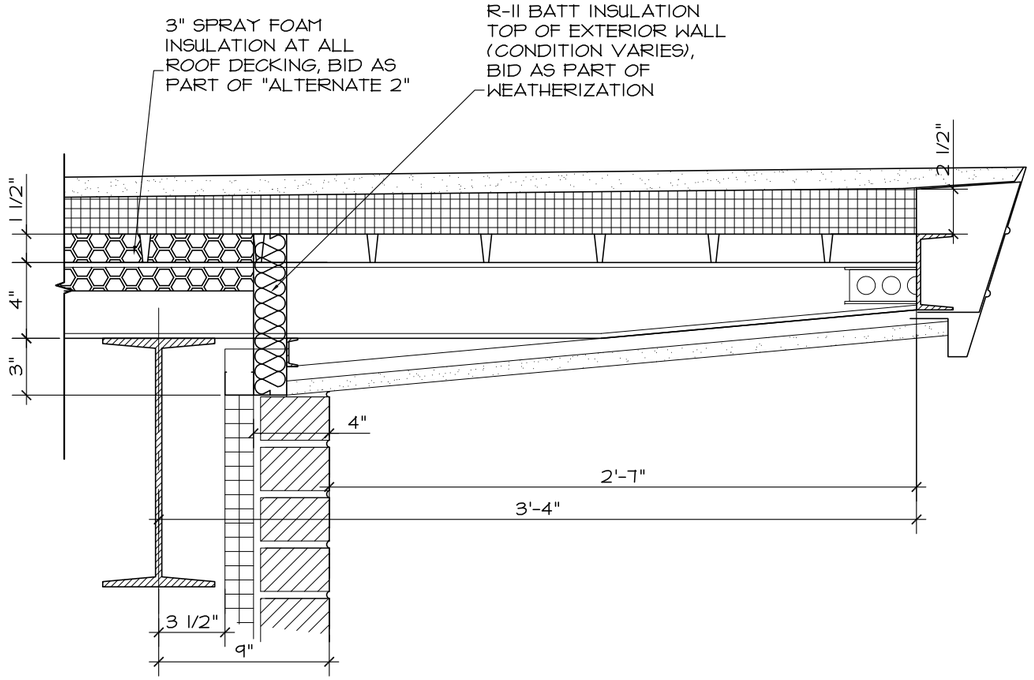
KANSAS DEPARTMENT OF TRANSPORTATION

STORM WINDOW SECTION

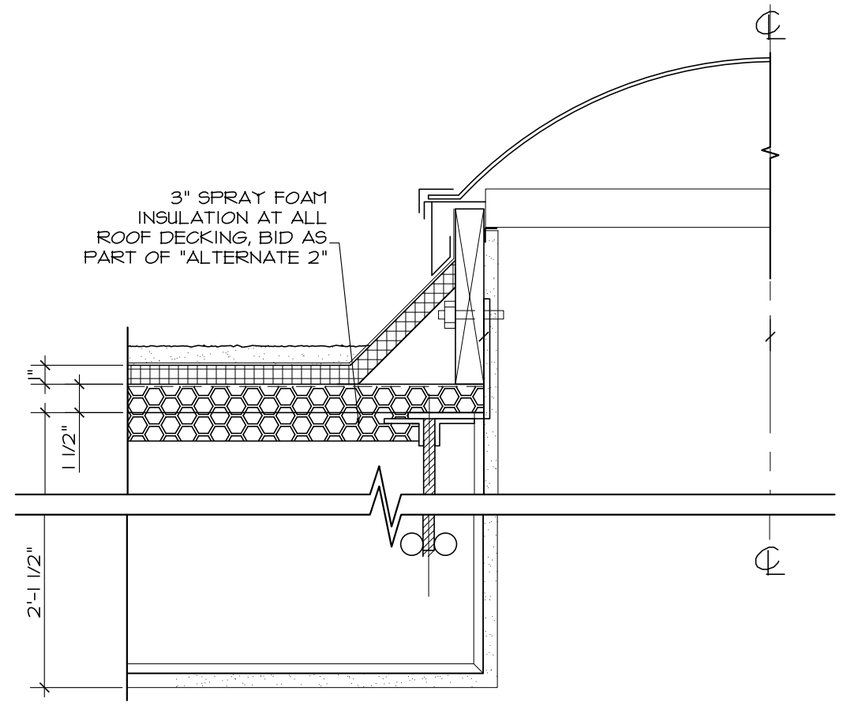
5.W.0

FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

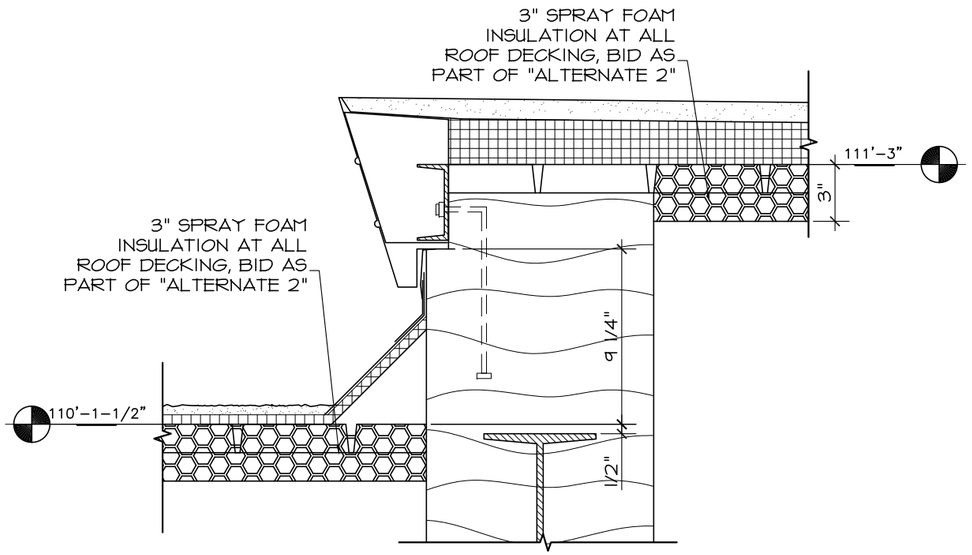
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	46	143
F.A. NO.				



1 ROOF INSULATION
1-1/2" = 1'-0" AT TYP. ROOF OVERHANG



2 ROOF INSULATION
1-1/2" = 1'-0" AT SKYLIGHT



3 ROOF INSULATION
1-1/2" = 1'-0" AT BREAK IN ROOF ASSEMBLIES

BY	DATE
SURVEYED	
PLOTTED	
INKED	
DESIGNED	
SQUAD	

KANSAS DEPARTMENT OF TRANSPORTATION

ROOF INSULATION DETAILS (ALTERNATE #2)

5.W.1

FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	47	143
F.A. NO.				

DATE

BY

SURVEYED

PLOTTED

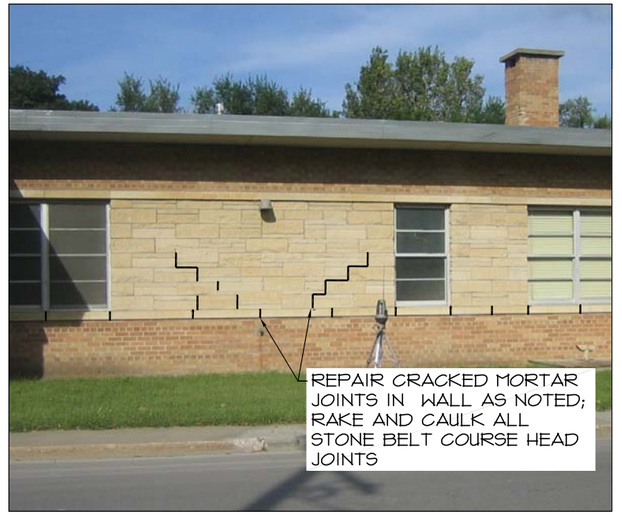
INKED

DESIGNED

SQUAD

S-1

S-2



S-3

S-4

SE-1

E-1

KANSAS DEPARTMENT OF TRANSPORTATION

EXTERIOR PHOTO KEY

6.E.0

FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	48	143
F.A. NO.				

DATE

BY

SURVEYED

PLOTTED

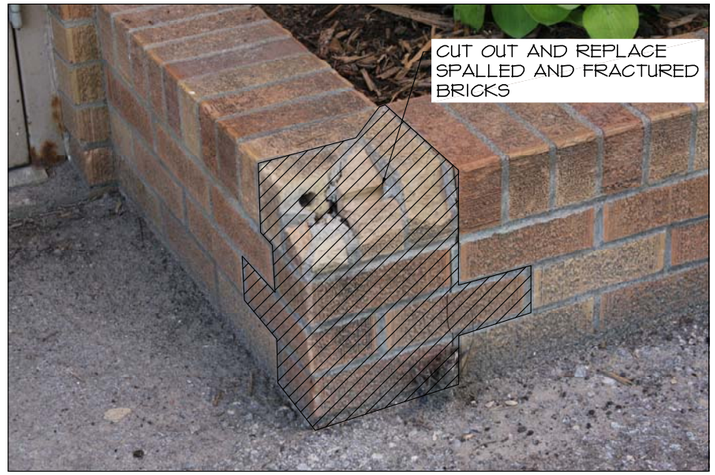
INKED

DESIGNED

SQUAD

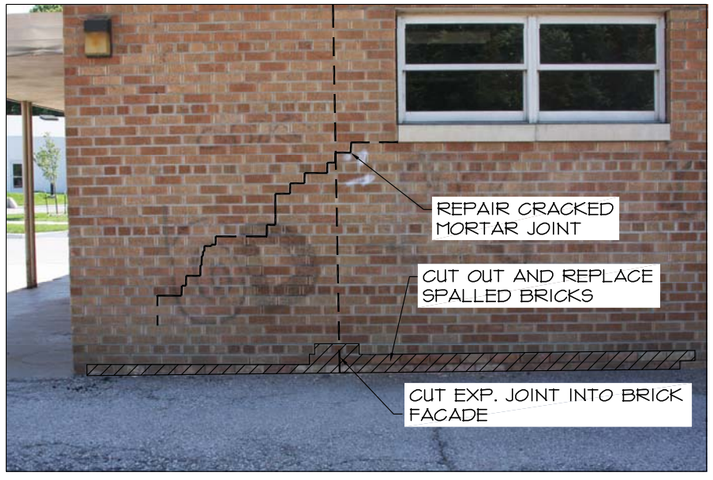
E-2

E-3

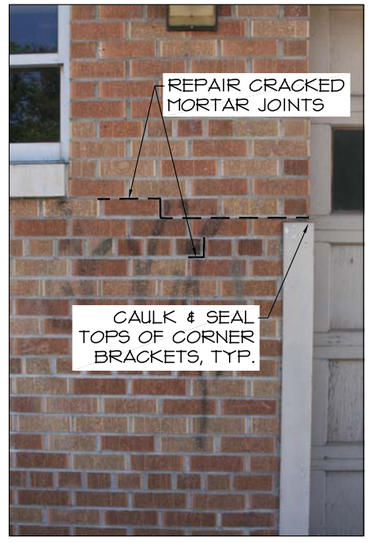


NE-1

NE-2



N-1



N-2

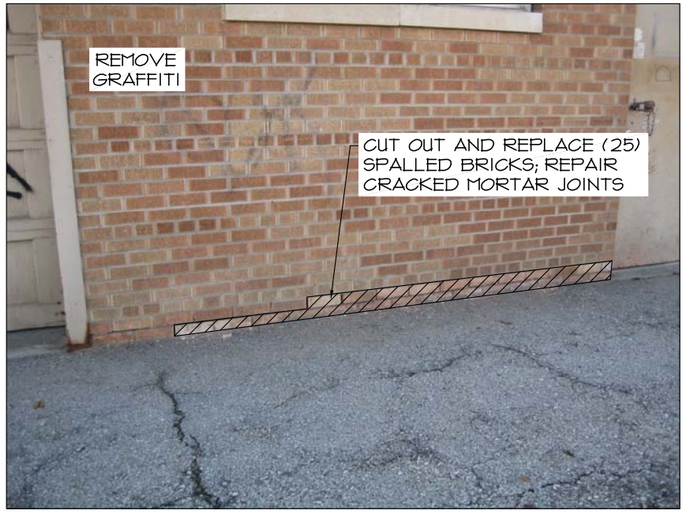
KANSAS DEPARTMENT OF TRANSPORTATION

EXTERIOR PHOTO KEY

6.E.1

FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	49	143
F.A. NO.				



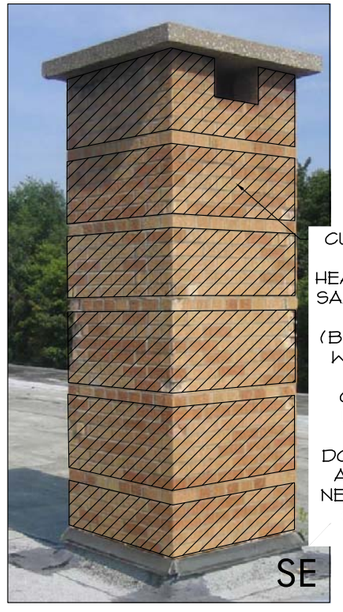
N-3

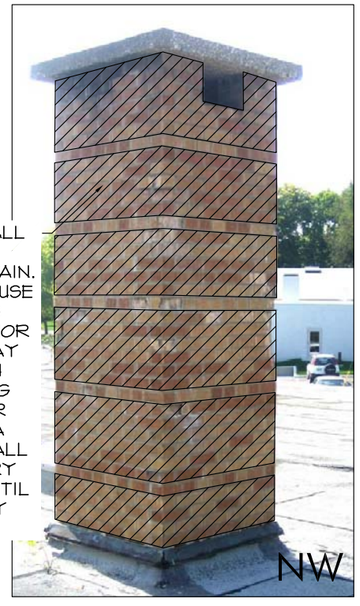
N-4

NW-1

W-1

W-2





C-1

KANSAS DEPARTMENT OF TRANSPORTATION

EXTERIOR PHOTO KEY

6.E.2

FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

DATE
BY
SURVEYED
PLOTTED
INKED
DESIGNED
SQUAD

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	50	143
F.A. NO.				

REPLACE SLIDING CABINET DOOR HARDWARE; REFINISH CABINET DOORS, DRAWER FACES, AND CASES; SERVICE DRAWER HARDWARE FOR PROPER OPERATION.

4A

ORIGINAL WOOD BY-PASS SLIDING DOORS; REPLACE SLIDING DOOR HARDWARE; REFINISH DOORS AND TRIM.

4B

ORIG. TICKET COUNTER CASEWORK; REFINISH WOOD COUNTERTOP EDGING; REFINISH MARRED SPOTS OF "PICKLED" FINISH OF WOOD PANEL BELOW COUNTERTOP.

5A

ORIG. WOOD BY-PASS SLIDING DOORS; REPLACE TRACK HARDWARE AND REFINISH DOORS AND TRIM

10A

KANSAS DEPARTMENT OF TRANSPORTATION

INTERIOR PHOTO KEY (ALTERNATE #1)

6.1.0

FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

DATE	BY
SURVEYED	
PLOTTED	
INKED	
DESIGNED	
SQUAD	

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	51	143
F.A. NO.				

WOOD SHELVING; PREP AND PAINT SHELVING.

(NIC)

12A

ORIG. WOOD BY-PASS SLIDING DOORS; REPLACE TRACK HARDWARE AND REFINISH DOORS AND TRIM.

(NIC)

13A

REFINISH THE DOORS AND CABINET CASE; SERVICE DRAWER AND DOOR HARDWARE FOR PROPER OPERATION.

(NIC)

13B

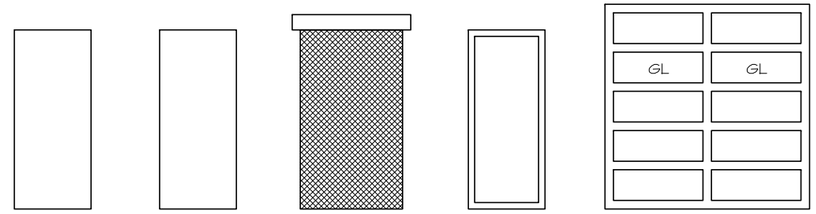
BY	DATE
SURVEYED	
PLOTTED	
INKED	
DESIGNED	
SQUAD	

KANSAS DEPARTMENT OF TRANSPORTATION

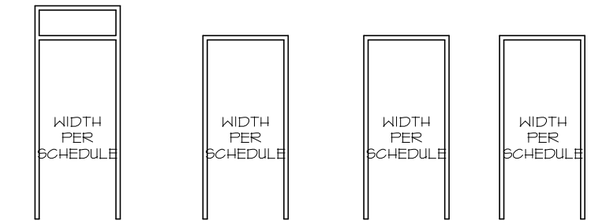
INTERIOR PHOTO KEY (ALTERNATE #1)

6.1.1

FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.



(A) HOLLOW METAL (B) WOOD (C) COILING OVERHEAD GRILLE (D) ALUMINUM (E) OVERHEAD DOOR



(1) HOLLOW METAL (2) KNOCK DOWN FRAME (3) WOOD FRAME (4) ALUMINUM

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	52	143
F.A. NO.				

DOOR & FRAME TYPES - ACCESSIBILITY PROJECT

DOOR							FRAME				HARDWARE														
DR #	NOTE	SIZE (W x H)		TYPE	MAT.	FINISH		TYPE	MAT.	FINISH	HINGES	LOCKSET	BOLTS	PUSH	PULL	CLOSER	OPERATOR	DOOR HOLDER	KICKPLATE	THRESHOLD	WEATHERSTRIP	SIGNAGE	REMARKS
2A		3'-0" x 7'-0" (PAIR)	EXIST	D	AL	CLR	EXIST	4	AL	CLR	E			P1	P2		O1	D1		E	N		
2B		3'-0" x 7'-0" (PAIR)	EXIST	D	AL	CLR	EXIST	4	AL	CLR	E			P1	P2	C1				E	N		
2C		3'-0" x 7'-0" (PAIR)	EXIST	D	AL	CLR	EXIST	4	AL	CLR	H2			P3	P4		O1	D2		T1	N		
2D		3'-0" x 7'-0" (PAIR)	EXIST	D	AL	CLR	EXIST	4	AL	CLR	H2			P3	P4	C2				T1	N		
3A		3'-0" x 7'-0" (PAIR)	EXIST	D	AL	CLR	EXIST	4	AL	CLR	H2			P1	P2		O1	D2		T1	N		
3B		3'-0" x 7'-0" (PAIR)	EXIST	D	AL	CLR	EXIST	4	AL	CLR	H2			P1	P2	C1				T1	N		
3C		3'-0" x 7'-0" (PAIR)	EXIST	D	AL	CLR	EXIST	4	AL	CLR	H2			P3	P4		O1	D2		T1	N		
3D		3'-0" x 7'-0" (PAIR)	EXIST	D	AL	CLR	EXIST	4	AL	CLR	H2			P3	P4	C2				T1	N		
4A		2'-10" x 6'-8"	EXIST	B	WD	REFINISH	EXIST	3	WD	PAINT	E	L1											R1
4B		2'-10" x 6'-8"	EXIST	B	WD	REFINISH	EXIST	3	WD	PAINT	H5	L1											
6A	1	2'-8" x 6'-8"	EXIST	A	HM	PAINT	EXIST	1	HM	PAINT	E	E								E	N		R2
6B	1	3'-0" x 6'-8" (PAIR)	EXIST	A	HM	PAINT	EXIST	1	HM	PAINT	E	E								E	N		R2
6C	1	3'-0" x 6'-8" (PAIR)	EXIST	A	HM	PAINT	EXIST	1	HM	PAINT	E	E	E							E	N		
7A		3'-0" x 6'-8"	NEW	B	WD	CLR	NEW	2	KD	PAINT	H4	L2		P5	P6	C3			K1			S1	
8A		3'-0" x 6'-8"	NEW	B	WD	CLR	NEW	2	KD	PAINT	H4	L2		P5	P6	C3			K1			S1	
9A	2	2'-6" x 6'-8"	EXIST	B	WD	REFINISH	EXIST	3	WD	PAINT	E	L3							E				
10A		3'-0" x 6'-8"	NEW	B	WD	CLR	NEW	2	KD	PAINT	H4	L1				C4		D3					
11A	2	2'-6" x 6'-8"	EXIST	B	WD	REFINISH	EXIST	1	HM	PAINT	E	L3							E				R3
12A	1	2'-8" x 6'-8"	EXIST	A	HM	PAINT	EXIST	1	HM	PAINT	E	L1				E				E	N		R2
12B	1, 3	8'-0" x 8'-0" (OHD)	EXIST	E	WD	PAINT	EXIST	-	MTL	PAINT		E											
12C	1	8'-0" x 6'-10" (OHD)	EXIST	-	HM	-	EXIST	-	MTL	PAINT		E											
12D		4'-0" x 6'-8" (OHD)	EXIST	C	MTL	-	EXIST	-	MTL	PAINT													
12D		2'-0" x 1'-10"	NEW	B	WD	PAINT	NEW	3	WD	PAINT	H3		B1										
13A	2	2'-6" x 6'-8"	EXIST	B	WD	REFINISH	EXIST	3	WD	PAINT	E	E											R4
13B		3'-0" x 6'-8"	NEW	B	WD	CLR	NEW	2	KD	PAINT	H3	L1											R5
13C		3'-0" x 7'-0"	NEW	B	WD	CLR	NEW	2	HM	PAINT	H3	L1											R5
14A		3'-0" x 6'-8"	EXIST	B	WD	PAINT	EXIST	3	WD	PAINT	H4			P7	P8	C3			K2	E	N		R6

1. BID AS PART OF "EXTERIOR RESTORATION" WORK.
2. BID AS PART OF "INTERIOR RESTORATION" WORK.
3. FOLLOW WORK PROCEDURES OF "LEAD-BASED PAINT INSPECTION REPORT" IN APPENDIX OF PROJECT MANUAL

HARDWARE KEY

E - EXISTING
N - NEW
H1 - NEW STANDARD WEIGHT BALL-BEARING HINGES
H2 - SERVICE EXISTING PIVOT HINGES FOR PROPER OPERATION
H3 - NEW STANDARD WEIGHT PLAIN BEARING HINGES
H4 - INSTALL SALVAGED HINGES
H5 - STANDARD WEIGHT OFF-SET BALL-BEARING HINGES
L1 - NEW LEVER HANDLE ENTRANCE/OFFICE LOCKSET - KEY LOCK EXTERIOR, BUTTON LOCK INTERIOR, ROTATE INTERIOR LEVER TO RELEASE
L2 - INSTALL SALVAGED DEADBOLT LOCK
L3 - NEW LVR HANDLE STORAGE LOCKSET - EXT. LEVER LOCK/UNLOCK BY KEY, INT. ALWAYS UNLOCKED
B1 - NEW SURFACE MOUNT MANUAL HORIZONTAL SLIDE BOLT
P1 - NEW DEADLATCH PADDLE W/ EXT. KEYED DEADBOLT CYLINDER; MOUNT SALVAGED ALUM. VERT. PUSH BAR TO PUSH BARS TO FACE OF DOOR
P2 - INSTALL SALVAGED PULL HANDLES
P3 - EXIST. ALUM. VERTICAL AND HORIZONTAL PUSH BARS TO REMAIN
P4 - EXIST. PULL HANDLES TO REMAIN
P5 - INSTALL SALVAGED PUSH PLATE
P6 - INSTALL SALVAGED PULL HANDLE
P7 - NEW PANIC DEVICE W/ EXTERIOR KEYED DEADBOLT CYLINDER
P8 - INSTALL SALVAGED PULL HANDLE; THUMB RELEASE TO BE NON-FUNCTIONAL
C1 - OVERHEAD CONCEALED CLOSER
C2 - NEW IN-FLOOR CLOSER; MOUNT IN EXIST. CLOSER CASE
C3 - NEW OVERHEAD SURFACE CLOSER
C4 - INSTALL SALVAGED CLOSER
O1 - NEW OVERHEAD SURFACE DOOR OPERATOR W/ 2 BATTERY OPERATED REMOTE PUSH-PLATE ACTIVATORS
D1 - INSTALL SALVAGED OVERHEAD DOOR HOLDER
D2 - NEW OVERHEAD DOOR HOLDER, MATCH SALVAGED DOOR HOLDER
D3 - INSTALL SALVAGED DOOR KICK HOLDER
K1 - NEW KICKPLATE SIZED FOR NEW DOOR; FINISH TO MATCH EXIST. KICKPLATE
K2 - INSTALL SALVAGED KICKPLATE ON OPPOSITE SIDE OF DOOR
T1 - EXISTING THRESHOLD, INCLUDING IN-FLOOR DOOR CLOSER CASE AND COVER, TO REMAIN
S1 - INSTALL SALVAGED DOOR MOUNTED SIGN
R1 - AT LATCH SIDE, CUT AND REMOVE MTL. STOP ON DOOR FRAME BELOW 34"; WELD SHEET MTL. PATCH OVER REMOVED STOP, GRIND SMOOTH
R2 - AT BOTTOM OF DOOR FRAME, REPLACE DETERIORATED PORTION OF FRAME WITH NEW SECTION OF FRAME, WELD AND GRIND SMOOTH
R3 - REMOVE SLIDE BOLT LATCH, PADLOCK CHAIN HANGER, AND FOOT BOLT; PATCH HOLES IN DOOR W/ WOOD FILLER; PATCH HOLES IN KICKPLATE W/ SEALANT (MATCH KICKPLATE COLOR)
R4 - HANG ORIG. EXIST. DOOR LEAF AT THIS LOCATION (CURRENTLY STORED IN BAGGAGE ROOM)
R5 - PROVIDE DOOR SILENCERS
R6 - REINSTALL EXIST. DOOR AT THIS LOCATION SO IT OPENS IN THE DIRECTION OF EXIT TRAVEL

KANSAS DEPARTMENT OF TRANSPORTATION

DOOR SCHEDULE

7.A.0

FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

DATE | BY | SURVEYED | PLOTTED | INKED | DESIGNED | SQUAD

DOOR SCHEDULE - ACCESSIBILITY PROJECT

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	53	143
F.A. NO.				

ROOM #	ROOM NAME	FLOOR	BASE	WALLS	CEILING	WINDOW TREATMENTS	WOOD WORK AND TRIM
1	WAITING	TERRAZZO: PATCH CRACKS (APPROX 24 L.F.), RE-GRIND, CLEAN, AND SEAL PER SPECIFICATION SECTION 096610	PTD. MTL. BASE, SOME PCS LOOSE OR MISSING. REATTACH LOOSE PCS ON NORTH WALL W/ MASONRY ANCHORS (APPROX. 27 L.F), REPLACE MISSING SEGMENTS (APPROX. 4 L.F), PAINT ALL BASE TO MATCH ORIG. COLOR	FACE BRICK: CLEAN W/ WATER AND MILD DETERGENT PER SPECIFICATIONS SECTION 040120	12x12 FISSURED ACT, SOME ORIG.; PTD. PLASTER W/ SOME DAMAGE. REPLACE ALL TILE W/ NEW TILE TO MATCH ORIG.; PATCH (APPROX. 20 L.F) AND PAINT ALL PLASTER	EXISTING CURTAIN TRACKS TO REMAIN. NEW CURTAINS ARE NOT INCLUDED IN THIS PROJECT.	REFINISH WOOD TELEPHONE SHELF, WOOD TRIM AT BULKHEAD OVER TICKET COUNTER, AND WOOD EDGE AT TICKET COUNTER. CLEAN WOOD PANELING UNDER TICKET COUNTER AND WOOD FRAME AROUND PHOTO ON WEST WALL. REFINISH & CLEAN PER SPECIFICATION SECTION 064005.
2	VESTIBULE 2	TERRAZZO: RE-GRIND, CLEAN, AND SEAL PER SPECIFICATION SECTION 096610	PTD. MTL. BASE, SOME PCS LOOSE. REATTACH LOOSE PCS W/ MASONRY ANCHORS (APPROX. 6 L.F), PAINT ALL BASE TO MATCH ORIGINAL COLOR	FACE BRICK: CLEAN W/ WATER AND MILD DETERGENT PER SPECIFICATIONS SECTION 040120	24x48 FISSURED ACT, NOT ORIG. REPLACE W/ NEW 12x12 FISSURED ACT TO MATCH ORIG.		
3	VESTIBULE 3	TERRAZZO: RE-GRIND, CLEAN, AND SEAL PER SPECIFICATION SECTION 096610	PTD. MTL. BASE, SOME PCS LOOSE. REATTACH LOOSE PCS W/ MASONRY ANCHORS (APPROX. 6 L.F), PAINT ALL BASE TO MATCH ORIGINAL COLOR	FACE BRICK AND STONE: CLEAN W/ WATER AND MILD DETERGENT PER SPECIFICATIONS SECTION 040120	24x48 FISSURED ACT, NOT ORIG. REPLACE W/ NEW 12x12 FISSURED ACT TO MATCH ORIG.		
4	TICKET OFFICE	12x12 VINYL TILE IS NOT ORIG., MASTIC CONTAINS ASBESTOS. 9x9 VINYL ASBESTOS TILE IN CLOSET IS ORIGINAL. REPLACE EXISTING 12X12 VINYL TILE W/ NEW 12X12 TILE TO MATCH ORIGINAL COLOR. CLEAN AND POLISH NEW 12X12 TILE AND EXISTING 9X9 TILE. FOLLOW WORK PROCEDURES IN "ASBESTOS SCREENING REPORT" IN PROJECT MANUAL.	PTD. MTL. BASE, SOME PCS LOOSE. REATTACH LOOSE PCS W/ MASONRY ANCHORS (APPROX. 12 L.F), PAINT ALL BASE TO MATCH ORIGINAL COLOR	PLASTER ON CMU: PATCH CRACKS (APPROX. 8 L.F) AND PAINT ALL WALLS	12x12 FISSURED ACT W/ SOME STAINING AND DAMAGE. REPLACE TEN DAMAGED TILES TO MATCH EXISTING, PRIME AND PAINT ENTIRE CEILING	REFINISH EXISTING OAK SILL PER SPECIFICATION SECTION 064005. CLEAN HORIZONTAL LOUVER BLINDS AND SERVICE FOR PROPER OPERATION	REFINISH WOOD CASEWORK, CLOSET DOORS, AND TRIM PER SPECIFICATION SECTION 064005
5	PASSAGE	TERRAZZO: PATCH CRACKS (APPROX. 8 L.F), RE-GRIND, CLEAN, AND SEAL PER SPECIFICATION SECTION 096610	PTD. MTL. BASE, SOME PCS LOOSE. REATTACH LOOSE PCS (APPROX. 6 L.F), PAINT ALL BASE TO MATCH ORIGINAL COLOR	WOOD PANELING: REFINISH PER SPECIFICATION SECTION 064005.	24x48 FISSURED ACT, NOT ORIG. REPLACE W/ NEW 12x12 FISSURED ACT TO MATCH ORIG.		REFINISH WOOD TRIM PER SPECIFICATION SECTION 064005
6	BOILER ROOM	REFER TO "MECHANICAL" AND "ELECTRICAL" DRAWINGS FOR WORK IN THIS AREA	REFER TO "MECHANICAL" AND "ELECTRICAL" DRAWINGS FOR WORK IN THIS AREA	REFER TO "MECHANICAL" AND "ELECTRICAL" DRAWINGS FOR WORK IN THIS AREA	REFER TO "MECHANICAL" AND "ELECTRICAL" DRAWINGS FOR WORK IN THIS AREA		
7	MEN'S RESTROOM	REFER TO "ACCESSIBILITY IMPROVEMENTS" DRAWINGS FOR WORK IN THIS AREA	REFER TO "ACCESSIBILITY IMPROVEMENTS" DRAWINGS FOR WORK IN THIS AREA	REFER TO "ACCESSIBILITY IMPROVEMENTS" DRAWINGS FOR WORK IN THIS AREA	REFER TO "ACCESSIBILITY IMPROVEMENTS" DRAWINGS FOR WORK IN THIS AREA		
8	WOMEN'S RESTROOM	REFER TO "ACCESSIBILITY IMPROVEMENTS" DRAWINGS FOR WORK IN THIS AREA	REFER TO "ACCESSIBILITY IMPROVEMENTS" DRAWINGS FOR WORK IN THIS AREA	REFER TO "ACCESSIBILITY IMPROVEMENTS" DRAWINGS FOR WORK IN THIS AREA	REFER TO "ACCESSIBILITY IMPROVEMENTS" DRAWINGS FOR WORK IN THIS AREA		
9	JANITOR'S CLOSET	EXIST. CONC. FLOOR TO REMAIN. REPLACE EXISTING 30"x30" STEEL FLOOR HATCH AND FRAME W/ NEW STEEL FLOOR HATCH AND FRAME	NO WORK AS PART OF INTERIOR IMPROVEMENTS PROJECT	NO WORK AS PART OF INTERIOR IMPROVEMENTS PROJECT	NO WORK AS PART OF INTERIOR IMPROVEMENTS PROJECT		
10	AGENT'S OFFICE	12x12 VINYL TILE IS NOT ORIG., MASTIC CONTAINS ASBESTOS. 9x9 VINYL ASBESTOS TILE IN CLOSET IS ORIGINAL. REPLACE EXISTING 12X12 VINYL TILE W/ NEW 12X12 TILE TO MATCH ORIGINAL COLOR. CLEAN AND POLISH NEW 12X12 TILE AND EXISTING 9X9 TILE. FOLLOW WORK PROCEDURES IN "ASBESTOS SCREENING REPORT" IN PROJECT MANUAL.	PTD. MTL. BASE, SOME PCS LOOSE. REATTACH LOOSE PCS W/ MASONRY ANCHORS (APPROX. 12 L.F), PAINT ALL BASE TO MATCH ORIGINAL COLOR	PLASTER ON CMU. PATCH CRACKS (APPROX. 12 L.F) AND PAINT ALL WALLS	24x48 FISSURED ACT, NOT ORIG. REPLACE W/ NEW 12x12 FISSURED ACT TO MATCH ORIG.	CLEAN HORIZONTAL LOUVER BLINDS AND SERVICE FOR PROPER OPERATION	REFINISH WOOD CLOSET DOORS AND TRIM PER SPECIFICATION SECTION 064005

DATE
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SQUAD

KANSAS DEPARTMENT OF TRANSPORTATION

FINISH SCHEDULE (ALTERNATE #1)

7.1.0

FINISH SCHEDULE

FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	54	143
F.A. NO.				

ROOM #	ROOM NAME	FLOOR	BASE	WALLS	CEILING	WINDOW TREATMENTS	WOOD WORK AND TRIM
11	(NIC) FILE ROOM	12x12 VINYL TILE NOT ORIG., MASTIC CONTAINS ASBESTOS -- REPLACE EXISTING 12X12 VINYL TILE W/ NEW 12X12 TILE TO MATCH ORIG. COLOR. FOLLOW WORK PROCEDURES IN "ASBESTOS SCREENING REPORT" IN PROJECT MANUAL.	PTD. MTL. BASE, SOME PCS LOOSE -- REATTACH LOOSE PCS W/ MAS. ANCHORS, REPLACE MISSING SEGMENTS, PAINT TO MATCH ORIG. COLOR	PLASTER ON CMU -- PATCH CRACKS AND PAINT TO MATCH ORIG. COLOR AND TEXTURE	12x12 FISSURED ACT W/ SOME STAINING AND DAMAGE -- REPLACE DAMAGED TILES TO MATCH EXISTING, PRIME AND PAINT ENTIRE CEILING		WOOD SHELVING -- CLEAN AND PAINT
12	(NIC) BAGGAGE ROOM	EXIST. CONC. FLOOR TO REMAIN	NONE -- NO WORK PROPOSED	PTD. CMU, NON-ORIG. STUD WALL PARTITION IN EAST PORTION -- PAINT WALLS TO MATCH ORIG., PATCH CRACK, & COORDINATE REMOVAL OF STUD WALL PARTITION WITH BNSF	PTD. PLASTER ON METAL LATH, W/ SOME WATER DAMAGE -- REPLACE DAMAGED AREA AND PAINT ENTIRE CEILING		ORIG. FREIGHT SCALE, OPERATIONAL CONDITION UNKNOWN -- PREP AND PAINT RUSTED COMPONENTS
13	(NIC) FREIGHT OFFICE	12x12 VINYL TILE IN POOR CONDITION, NOT ORIG., MASTIC CONTAINS ASBESTOS / 9x9 VINYL ASBESTOS TILE IN CLO, ORIG., -- REPLACE EXISTING VINYL TILE W/ NEW 12X12 TILE TO MATCH ORIG. COLOR. FOLLOW WORK PROCEDURES IN "ASBESTOS SCREENING REPORT" IN PROJECT MANUAL.	PTD. MTL. BASE, SOME PCS LOOSE -- REATTACH LOOSE PCS W/ MAS. ANCHORS, REPLACE MISSING SEGMENTS, PAINT TO MATCH ORIG. COLOR	PLASTER ON CMU -- PATCH CRACKS AND PAINT TO MATCH ORIG. COLOR AND TEXTURE	24x48 FISSURED ACT, NOT ORIG. -- REPLACE W/ NEW 12x12 FISSURED ACT TO MATCH ORIG., PATCH AND PAINT PLASTER FUR-DOWN	ORIG. LOUVRE BLINDS -- CLEAN BLINDS AND SERVICE FOR PROPER OPERATION	REFINISH WOOD CASEWORK, CLOSET DOORS, AND TRIM PER SPECIFICATION SECTIONS 062023 & 064600
14	VESTIBULE 14	12x12 VINYL TILE IN POOR CONDITION, NOT ORIG. -- REPLACE EXISTING VINYL TILE W/ NEW 12X12 TILE TO MATCH ORIG. COLOR. FOLLOW WORK PROCEDURES IN "ASBESTOS SCREENING REPORT" IN PROJECT MANUAL.	PTD. MTL. BASE, SOME PCS LOOSE -- REATTACH LOOSE PCS W/ MAS. ANCHORS, REPLACE MISSING SEGMENTS, PAINT TO MATCH ORIG. COLOR	PLASTER ON CMU, IN POOR CONDITION -- PATCH CRACKS AND PAINT TO MATCH ORIG. COLOR AND TEXTURE	24x48 FISSURED ACT, NOT ORIG. -- REPLACE W/ NEW 12x12 FISSURED ACT TO MATCH ORIG. IF AVAILABLE		REFINISH WOOD CASEWORK AND TRIM PER SPECIFICATION SECTIONS 062023 & 064600

DATE	BY	
		SURVEYED
		PLOTTED
		INKED
		DESIGNED
		SQUAD

FINISH SCHEDULE

KANSAS DEPARTMENT OF TRANSPORTATION

FINISH SCHEDULE (ALTERNATE #1)

7.1.1

FHWA APPROVAL XX-XX-XX		APP'D	XXX
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	55	143
F.A. NO.				

AIR DEVICE SCHEDULE

MARK	NECK SIZE	DIFFUSER FACE OR CEILING GRID SIZE	TYPE			CFM RANGE	MOUNTING		DUTY			MANUFACTURER	REMARKS
-- / --			DIFFUSER	REGISTER	GRILLE		LAY-IN	SURFACE	SUPPLY	RETURN	EXHAUST		
S-1	24" x 3"	24" x 3"	X			300		X	X			REFER TO SPECIFICATIONS	INSTALL AS CLOSE AS POSSIBLE TO EXTERIOR WALL.
R-1	24" x 16"	25 3/4" x 17 3/4"			X	300		X		X		REFER TO SPECIFICATIONS	
E-1	6" x 6"	7 3/4" x 7 3/4"			X	75		X			X	REFER TO SPECIFICATIONS	
E-1	8" x 6"	9 3/4" x 7 3/4"			X	150		X			X	REFER TO SPECIFICATIONS	
E-1	10" x 6"	11 3/4" x 7 3/4"			X	225		X			X	REFER TO SPECIFICATIONS	

HVAC EXHAUST FAN SCHEDULE

MARK	MANUFACTURER AND MODEL NO.	CFM	ESP	RPM	ELECTRICAL			OPER WT (LBS)	REMARKS
-- / --					BLOWER HP	VOLTS	PHASE		
EF-1	REFER TO SPECIFICATIONS	450	.25	628	1/6	120	1	53	INSTALL BACKDRAFT DAMPER

HVAC UNIT HEATER SCHEDULE

MARK	MANUFACTURER AND MODEL NO.	CFM	ESP	RPM	HEATING CAPACITY (BTUH)		ELECTRICAL			OPER WT (LBS)	REMARKS
-- / --					INPUT	OUTPUT	BLOWER HP	VOLTS	PHASE		
UH-1	TRANE UNT-IM-1	300	.286	1140	23,700	14,700	1/60	115	1	40	EXISTING FAN COIL. USE AIRGUARD DP40-STD FILTER 16" x 20" x 1"

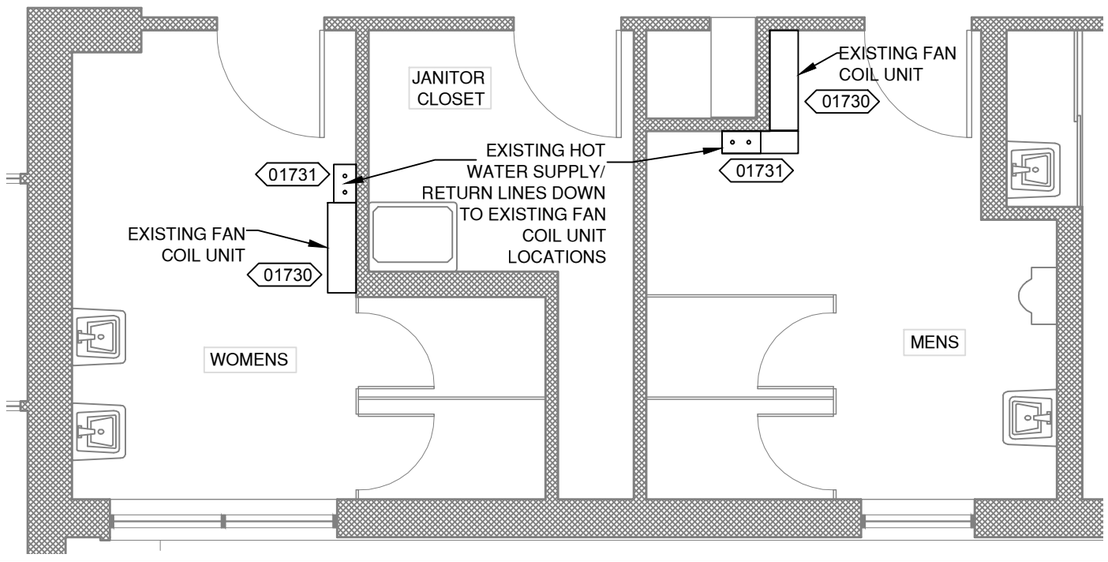
EXISTING FAN COIL MAY BE REPLACED WITH NEW EQUIVALENT FAN AND COIL.
CONTRACTOR SHALL PROVIDE SUBMITTAL FOR APPROVAL.

TEMPERATURE CONTROLS SCHEDULE

FIXTURE	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	HEIGHT	REMARKS
(T)	REFER TO SPECIFICATIONS	--	REMOTE TEMPERATURE SENSOR	4' - 0"	SENSOR CONNECTED TO CONTROL IN JANITOR CLOSET.
C	REFER TO SPECIFICATIONS	--	NON-PROGRAMMABLE THERMOSTAT	4' - 0"	LOCATED IN THE JANITOR CLOSET. ONE THERMOSTAT FOR EACH RESTROOM.

ALL CONTROLS SHALL BE APPROVED BY THE OWNER OR OWNERS REPRESENTATIVE PRIOR TO ORDERING OR INSTALLATION

1 SCHEDULES
SCALE: NONE



1 DEMOLITION PLAN
SCALE: 1/4" = 1'-0'

DEMOLITION NOTES: (THIS SHEET ONLY)

01730 REMOVE EXISTING FAN COIL UNITS (HEATING ONLY). CUT UNIT CASE DOWN TO COIL AND FAN ONLY, REMOVE VALVE BOX ENCLOSURES ON SIDE. SEE DETAILS FOR LOCATING UNIT ABOVE CEILING. CLEAN UNIT PRIOR TO PLACEMENT IN CEILING.

01731 FIELD VERIFY/ IDENTIFY EXISTING HOT WATER SUPPLY AND RETURN LINES AND REMOVE EXISTING ENCLOSURE AND PIPING TO ABOVE CEILING. CLEAN AND PATCH WALL BEHIND EQUIPMENT AND CHASE THAT HAS BEEN REMOVED.

KANSAS DEPARTMENT OF TRANSPORTATION

MECHANICAL SCHEDULES AND DEMO PLAN

M.A.1

FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

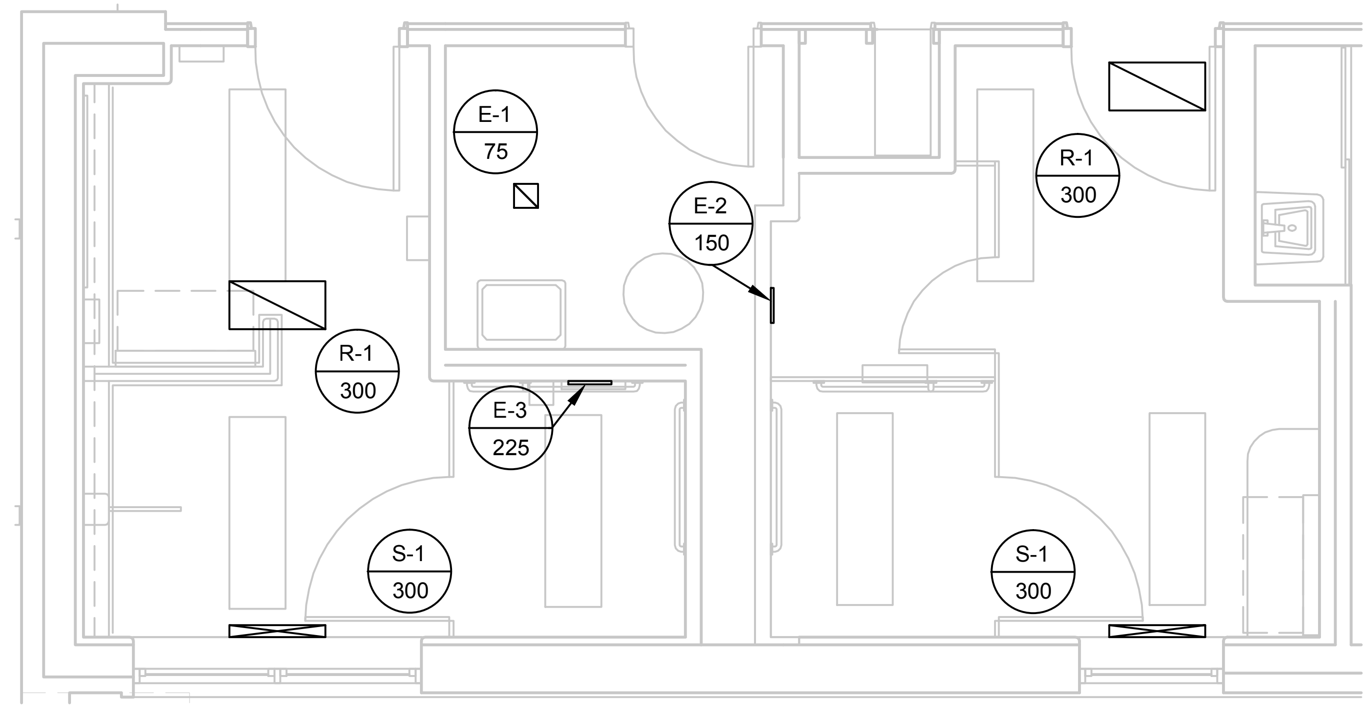
DATE
BY
SURVEYED
PLOTTED
INKED
DESIGNED
SQUAD

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE–0373–01	2014	56	143
F.A. NO.				

DATE

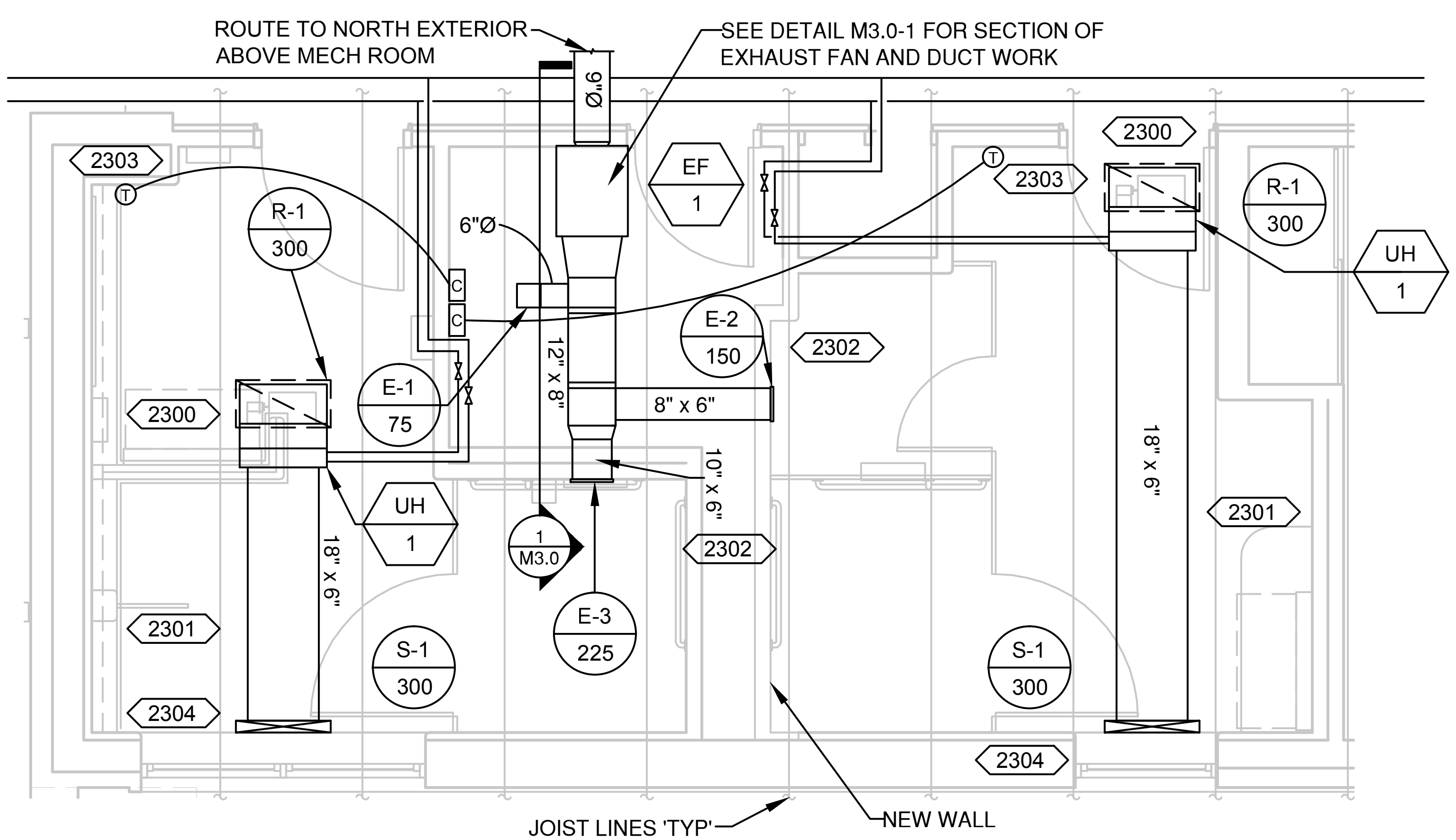
BY

SURVEYED
PLOTTED
INKED
DESIGNED
SQUAD



1 DIFFUSER AND RETURN/ EXHAUST GRILLE LAYOUT

SCALE: 1/4" = 1'-0'



2 MECHANICAL FLOOR PLAN

SCALE: 1/4" = 1'-0'

GENERAL NOTES:

1. ALL WORK SHALL CONFORM TO THE LATEST ADOPTED VERSION OF THE INTERNATIONAL MECHANICAL CODE (IMC).

2. ALL DUCT CONSTRUCTION, GAUGES, METHODS OF HANGING AND SUPPORTING SHALL CONFORM TO THE LATEST SMACNA STANDARDS AND CHAPTER 6 OF THE IMC.

3. ALL EXHAUST, RETURN, AND SUPPLY DUCTS SHALL BE CONSTRUCTED OF GALVANIZED SHEET METAL TO SMACNA 2" PRESSURE CLASS. ALL JOINTS AND SEAMS SHALL BE SEALED AIRTIGHT.

4. ALL ROUND EXHAUST AND SUPPLY DUCTS SHALL BE STANDARD GALVANIZED "SNAP - LOCK" PIPE WITH ALL CHANGES IN DIRECTION MADE VIA ADJUSTABLE ELBOWS. ALL JOINTS AND SEAMS SHALL BE SEALED AIRTIGHT.

5. PROVIDE MANUAL DAMPERS WITH LOCKING QUADRANTS IN ALL LOCATIONS INDICATED OR REQUIRED TO BALANCE THE AIR SYSTEM.

6. COORDINATE THE LOCATION OF DUCTWORK WITH THE PLACEMENT OF THE EXISTING LIGHT FIXTURES AND THE EXISTING STRUCTURAL MEMBERS.

7. LINE ALL DUCTS WITH 1/2" INSULATION. (EXCLUDE EXHAUST AND DUCTS UNDER 10" IN DIAMETER OR 10" x 10" IN SIZE.) ALL DUCT DIMENSIONS GIVEN ON DRAWINGS ARE CLEAR INSIDE DIMENSIONS (W x D).

8. THE CONTRACTOR SHALL VERIFY ALL STRUCTURAL CONDITIONS FOR THE CEILING SPACE AND EXACT DUCT ROUTE PRIOR TO FABRICATION. VERIFY IN THE FIELD EXACT ROUTING OF DUCTWORK TO ALLOW PROPER LOCATION OF LIGHTS AS SHOWN.

9. ANY FRAMING REQUIRED FOR DIFFUSER INSTALLATION IN HARD CEILINGS SHALL BE BY THE GENERAL CONTRACTOR.

10. ANY EQUIPMENT THAT IS SUBSTITUTED SHALL FIT IN THE SPACE PROVIDED, WITH ADEQUATE ROOM FOR SERVICING.

11. HVAC UNITS SHALL BE MOUNTED LEVEL.

12. SUPPLY SPECIFIED EQUIPMENT OR APPROVED EQUAL.

13. CONTRACTOR SHALL REVIEW ALL EQUIPMENT NAME PLATES AND INSTALLATION REQUIREMENTS PRIOR TO DOING WORK. EQUIPMENT IS TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.

14. CONTRACTOR SHALL REMOVE THE EXISTING LIGHT FIXTURES IN THE RESTROOMS FOR ACCESS INTO THE CEILING CAVITY FOR INSTALLATION OF THE DUCTWORK AND REINSTALL THE EXISTING LIGHT FIXTURES WHEN COMPLETED.

INSTALLATION NOTES: (THIS SHEET ONLY)

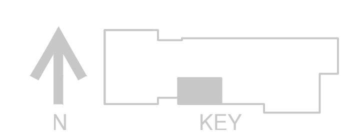
2300 EXISTING MODIFIED FAN COIL UNIT PLACED ABOVE CEILING THOUGH RETURN AIR GRILLE OPENING.

2301 REMOVE JOIST CROSS BRACING TO INSTALL DUCT. INSTALL BLOCKING IN PLACE OF CROSS BRACING. LIGHT FIXTURES MAY BE REMOVED AND RE-INSTALLED FOR ACCESS TO AREAS ABOVE THE HARD CEILING.

2302 FIELD VERIFY LOCATIONS OF WHOLE BLOCKS FOR REMOVAL TO INSTALL NEW WALL EXHAUST GRILLE. INSTALL EXHAUST GRILLE AT TOP OF WALL.

2303 REMOTE THERMOSTATS FOR THE FAN COIL UNITS ARE LOCATED IN THE RESTROOMS. MOUNT IN THE LOCATION OF THE EXISTING LIGHT SWITCHES TO BE REMOVED. THE SETTINGS & CONTROLS FOR FAN COIL UNITS ARE LOCATED IN AN EASY-TO-ACCES LOCATION WITHIN THE JANITOR CLOSET. CONSULT WITH ELECTRICAL CONTRACTOR FOR WIRING AND LOCATIONS.

2304 NEW SLOT DIFFUSERS AT WALL. DIRECT AIR DOWN ACROSS WINDOW.



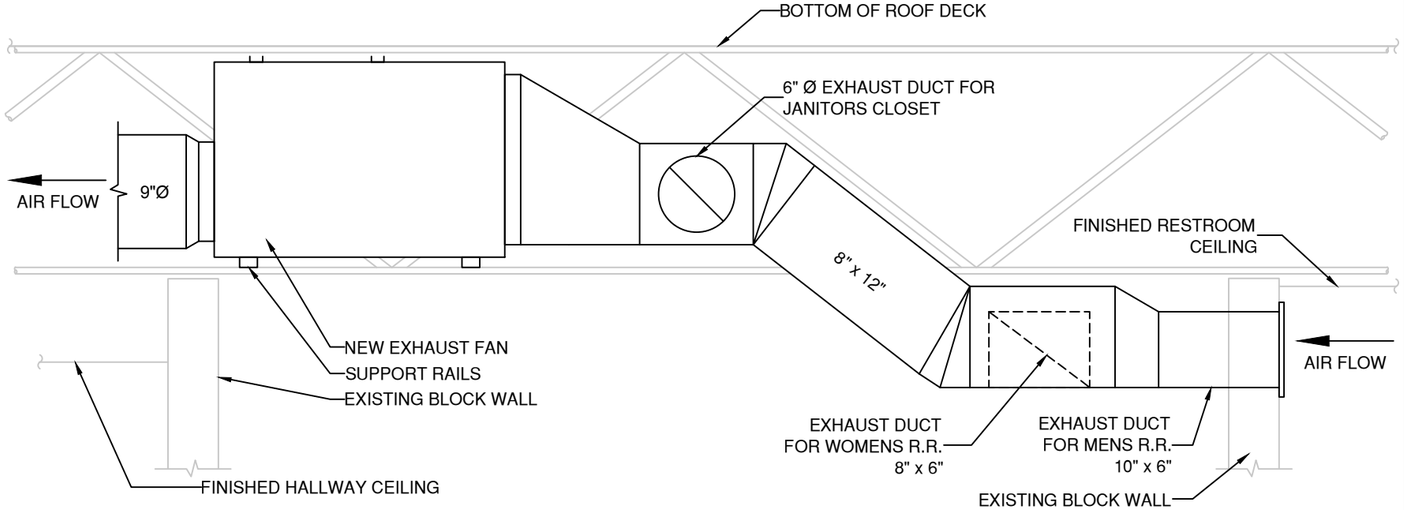
KANSAS DEPARTMENT OF TRANSPORTATION

MECHANICAL LAYOUT

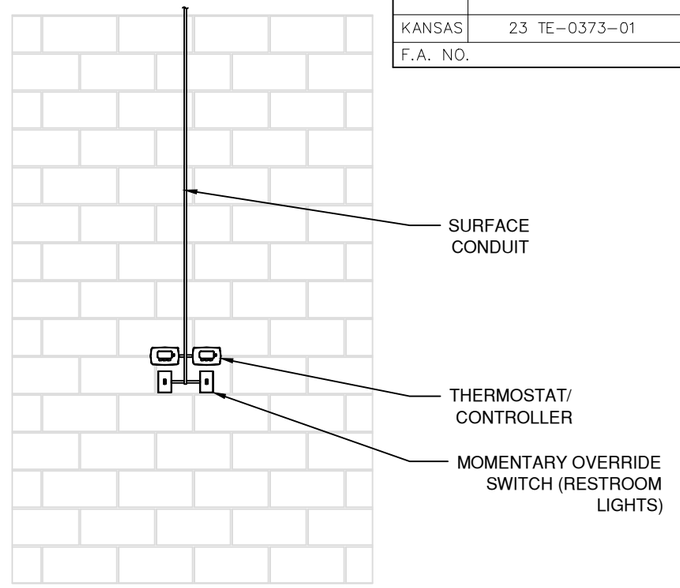
M.A.2

FHWA APPROVAL XX–XX–XX		APP'D	XXX
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

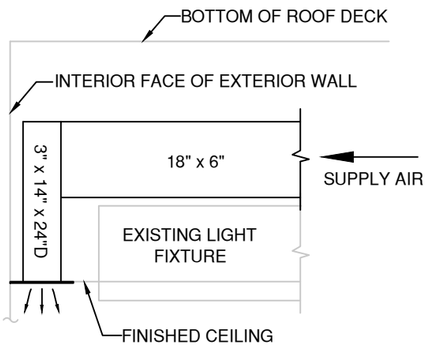
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	57	143
F.A. NO.				



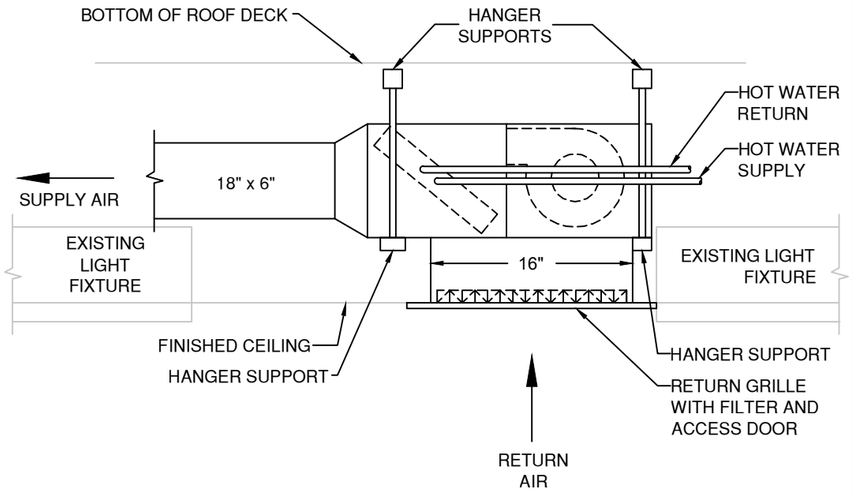
1 EXHAUST DUCT SECTION
SCALE: 1" = 1'-0'



2 ELEV. OF TEMP. CONTROLS & SWITCHES
SCALE: 3/8" = 1'-0'

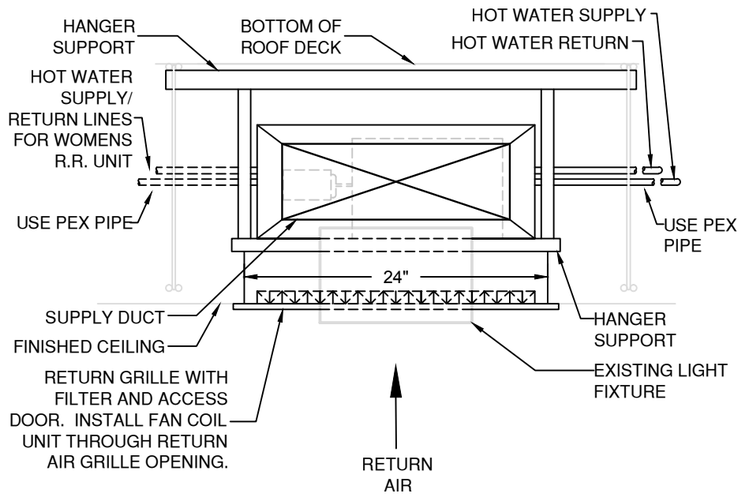


3 DIFFUSER SECTION
SCALE: 1" = 1'-0'



PROVIDE NEW CONTROL VALVE AND DDC FOR FAN COIL UNIT. CONTROLS TO BE MOUNTED IN JANITOR CLOSET WITH REMOTE SENSOR IN RESTROOM (SEE SCHEDULE).

4 UNIT HEATER SECTION
SCALE: 1" = 1'-0'



5 ELEV. OF UNIT HEATER
SCALE: 1" = 1'-0'

KANSAS DEPARTMENT OF TRANSPORTATION

MECHANICAL DETAILS

M.A.3

FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

DATE	BY
	SURVEYED
	PLOTTED
	INKED
	DESIGNED
	SQUAD

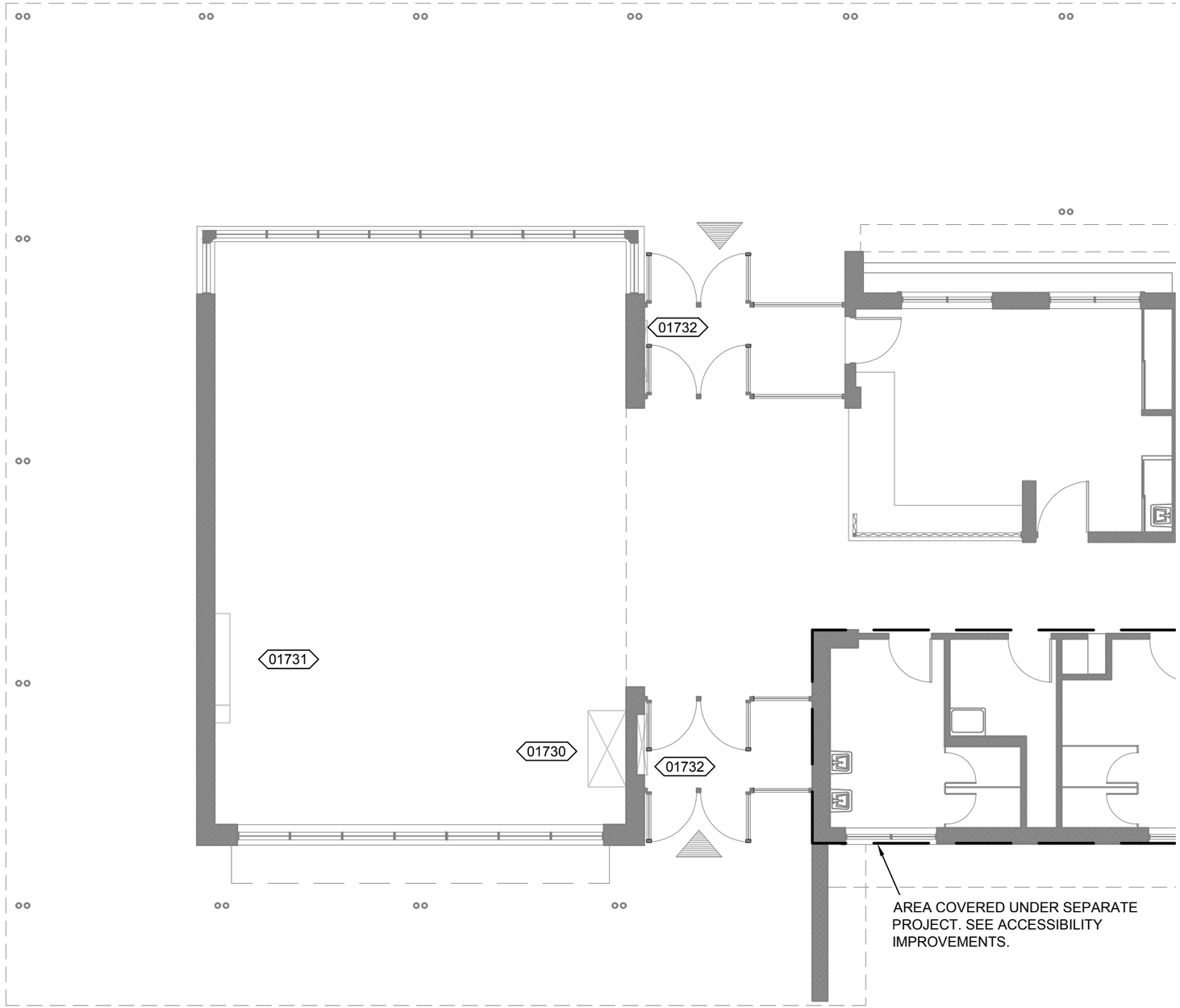
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	58	143
F.A. NO.				

DEMOLITION NOTES: (THIS SHEET ONLY)

01730 EXISTING WAITING ROOM COOLING ONLY UNIT TO BE REMOVED AND DISPOSED OF PROPERLY. UNIT ENCLOSURE TO REMAIN. ENCLOSURE SHALL BE REMOVED STRIPPED AND REPAINTED TO MATCH EXISTING COLOR AND MOUNTED ON NEW UNIT.

01731 EXISTING HOT WATER FAN COIL UNIT TO BE REMOVED ALONG WITH ASSOCIATED PIPING AND WOOD PANEL ENCLOSURE FOR PIPING. NEWLY EXPOSED WALL TO BE PATCHED AND CLEANED TO MATCH EXISTING WALLS. CONSULT ARCHITECT PRIOR TO CLEANING AND PATCHING WITH PROCEDURES TO BE USED FOR CLEANING AND PATCHING. PROPERLY DISPOSE OF FAN COIL UNIT AND PIPING.

01732 EXISTING HOT WATER RADIATORS IN VESTIBULES TO REMAIN IN NONFUNCTIONAL MANNER. WALL MOUNTED HOT WATER SUPPLY AND RETURN PIPING TO BE REMOVED. CAP PIPING.



1 DEMOLITION PLAN WEST
SCALE: 1/8" = 1'-0'

KANSAS DEPARTMENT OF TRANSPORTATION

MECHANICAL DEMO PLAN WEST

M.1.0

FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

DATE	BY
	SURVEYED
	PLOTTED
	INKED
	DESIGNED
	SQUAD

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	59	143
F.A. NO.				

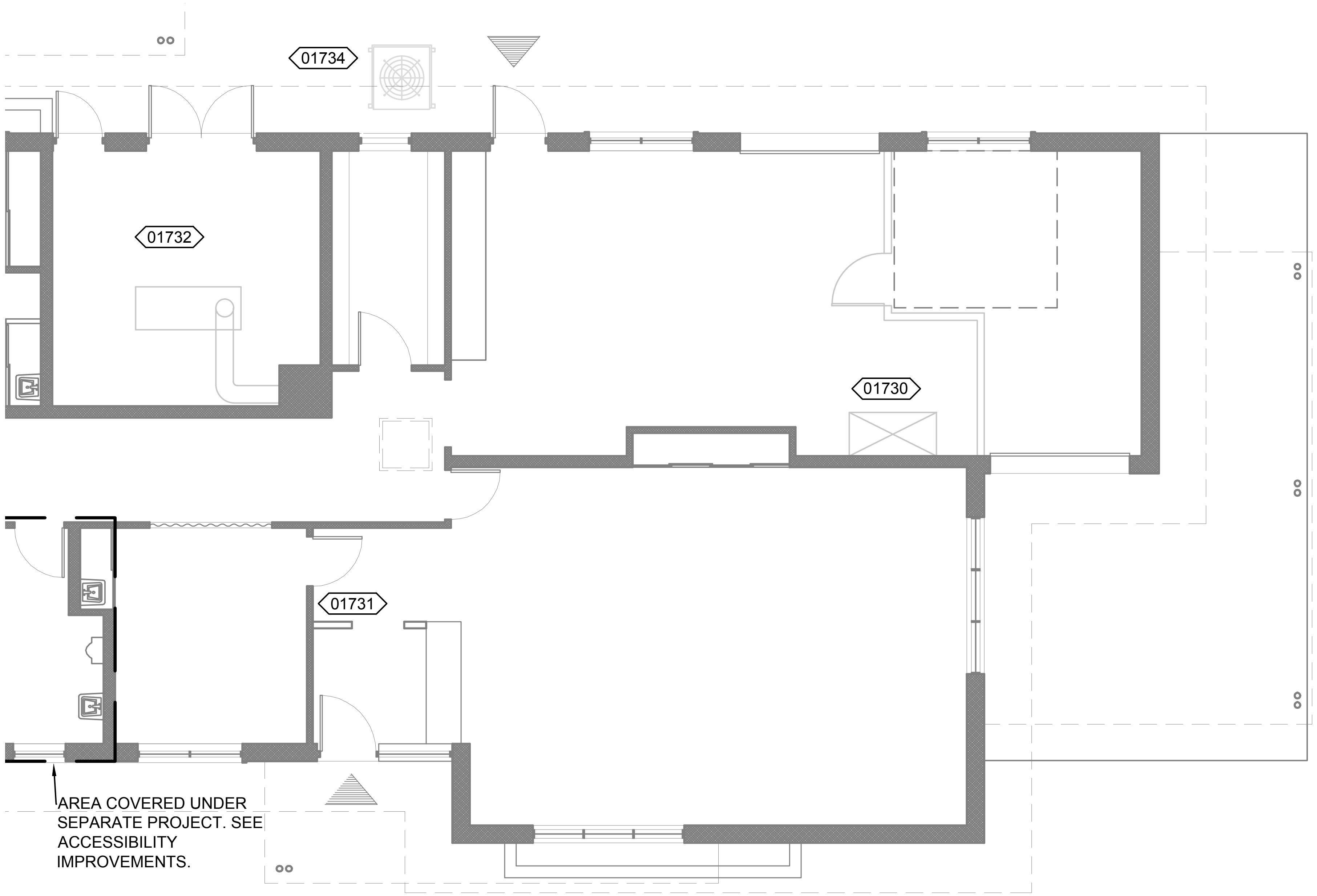
DEMOLITION NOTES: (THIS SHEET ONLY)

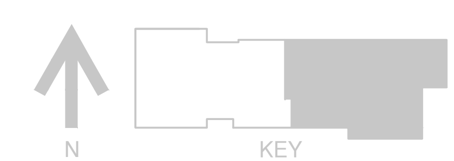
01730 EXISTING BAGGAGE ROOM UNIT ENCLOSURE TO REMAIN. ENCLOSURE SHALL BE REMOVED STRIPPED AND REPAINTED TO MATCH EXISTING COLOR. EQUIPMENT WITHIN CABINET TO BE REMOVED AND REPLACED. EXISTING AIR DISTRIBUTION DUCTWORK TO REMAIN.

01731 REMOVE EXISTING DOMESTIC WATER SUPPLY AND SANITARY PIPING FLUSH WITH WALL AND CAP.

01732 EXISTING BOILER AND ASSOCIATED PUMPS, EXPANSION TANK, AND PIPING TO BE REMOVED. REMOVE ANY OTHER ABANDON EQUIPMENT IN THE BOILER ROOM. THE PIPING SERVING THE UNDER FLOOR HEATING PANELS SHALL BE CUT IN A MATTER THAT DOES NOT CAUSE VIBRATIONS IN THE PANEL PIPING. FIELD VERIFY LAYOUT.

01733 EXISTING COOLING TOWER AND ASSOCIATED PUMP AND PIPING TO BE REMOVED. REMOVE PIPING TO THE COOLING ONLY UNITS.





DATE	BY	SURVEYED	PLOTTED	INKED	DESIGNED	SQUAD

1 DEMOLITION PLAN EAST

SCALE: 1/8" = 1'-0'

KANSAS DEPARTMENT OF TRANSPORTATION

MECHANICAL DEMO PLAN EAST

M.2.0

FHWA APPROVAL XX-XX-XX		APP'D	XXX
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	60	143
F.A. NO.				

HVAC UNIT SCHEDULE

MARK	COOLING							HEATING							
	TOTAL COOLING CAPACITY (BTUH)	SENSIBLE COOLING CAPACITY (BTUH)	MIN. EER (BTUH/ WATTS)	ELECTRICAL				MANUFACTURE & MODEL NO.	CFM	ESP	RPM	HEATING CAPACITY (BTUH)		OPER WT (LBS)	REMARKS
				VOLTS	PHASE	MOP	MCA					INPUT	OUTPUT		
AC-1	83,000	38,200	19.7	230	3	35	40	REFER TO SPECIFICATIONS	2600	3/4	825	N/A	55,000	644	WAITING ROOM UNIT 200 CFM OUTSIDE AIR
AC-2	95,000	31,400	19.6	230	3	35	40	REFER TO SPECIFICATIONS	2800	3/4	845	N/A	65,000	762	BAGGAGE ROOM UNIT 250 CFM OUTSIDE AIR

PROVIDE RETURN AIR SMOKE DETECTOR FOR EACH UNIT THAT SHALL SHUT DOWN THE UNIT UPON DETECTION OF SMOKE IN THE RETURN AIR.

HVAC EQUIPMENT SCHEDULE

MARK	MANUFACTURER AND MODEL NO.	HEATING CAPACITY (BTUH)		OPER WT (LBS)	REMARKS
		INPUT	OUTPUT		
BO-1	REFER TO SPECIFICATIONS	299,000	270,000	350	PROVIDE OUTDOOR RESET

AIR DEVICE SCHEDULE

MARK	NECK SIZE	DIFFUSER FACE OR CEILING GRID SIZE	TYPE			CFM RANGE	MOUNTING		DUTY			MANUFACTURER	MODEL NO.	REMARKS
			DIFFUSER	REGISTER	GRILLE		LAY-IN	SURFACE	SUPPLY	RETURN	EXHAUST			
S-1	--	12" x 16"	X			450		X	X			EXISTING	EXISTING	EXISTING DIFFUSERS TO REMAIN.
S-2	--	8" x 24"	X			450		X	X			EXISTING	EXISTING	EXISTING DIFFUSERS TO REMAIN.
S-3	--	14" x 40"	X			300		X	X			EXISTING	EXISTING	EXISTING DIFFUSERS TO REMAIN.
S-4	--	1' x 1'	X			200		X	X			EXISTING	EXISTING	EXISTING DIFFUSERS TO REMAIN.
S-5	--	10" x 20"	X			300		X	X			EXISTING	EXISTING	EXISTING DIFFUSERS TO REMAIN.
S-6	--	12" x 18"	X			300		X	X			EXISTING	EXISTING	EXISTING DIFFUSERS TO REMAIN.
S-7	12" X 18"	13 3/4" x 19 3/4"	X			50-100		X	X			REFER TO SPECIFICATIONS	300	--
S-8	6" X 6"	7 3/4" x 7 3/4"			X	50		X	X			REFER TO SPECIFICATIONS	300	--
R-1	--	16" x 32"			X	1500		X		X		EXISTING	EXISTING	EXISTING GRILLE TO REMAIN.

PUMP SCHEDULE

MARK	MANUFACTURER AND MODEL NO.	GPM	HEAD (FT)	HP	REMARKS
P-1	REFER TO SPECIFICATIONS	30	20	3/4	PUMPS FOR GROUND LOOP
P-2	REFER TO SPECIFICATIONS	7.5	25	3/4	PUMP FOR BOOSTER HEATING COILS ON AC-1 AND AC-2
P-3	REFER TO SPECIFICATIONS	5	15	1/8	PUMP FOR EXISTING FAN COILS
P-4	REFER TO SPECIFICATIONS	40	15	1/2	PUMP FOR RADIANT FLOOR. MATCH WITH EXISTING PUMP.
P-5	REFER TO SPECIFICATIONS	15	15	1/6	PUMP FOR NEW BOILER

REQUIRED MINIMUM OUTDOOR VENTILATION

2009 IMC - TABLE 403.3

AREA DESCRIPTION	PERSONS	OUTDOOR AIR PER PERSON (CFM)	BUILDING SQUARE FEET	OUTDOOR AIR PER SQUARE FOOT (CFM)	CFM REQUIRED
WAITING ROOM	25	5	1,028	0.06	187
OFFICES	7	5	3,296	0.06	233
BUILDING TOTAL					**420**

AIR BALANCE SCHEDULE

ALL QUANTITIES ARE IN CFM

ITEM	OUTSIDE AIR	RETURN AIR	SUPPLY AIR	EXHAUST/ RELIEF AIR	PRESSURE
EF	---	---	---	400	-400
AC-1	200	2400	2600	0	+200
AC-2	250	2550	2800	0	+250
BUILDING TOTAL	**450**	**4950**	**5400**	**400**	**+50**

HOT WATER BOOSTER COILS SCHEDULE

MARK	MANUFACTURER AND MODEL NO.	HEATING CAPACITY (BTUH)	OPER WT (LBS)	REMARKS
HW-1	PRECISION COILS W1021224 N	74.3 MBH	24	26" x 14" MOUNT ON DISCHARGE OF AC-1 AND AC-2

DATE
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1 MECHANICAL SCHEDULES
SCALE: NTS

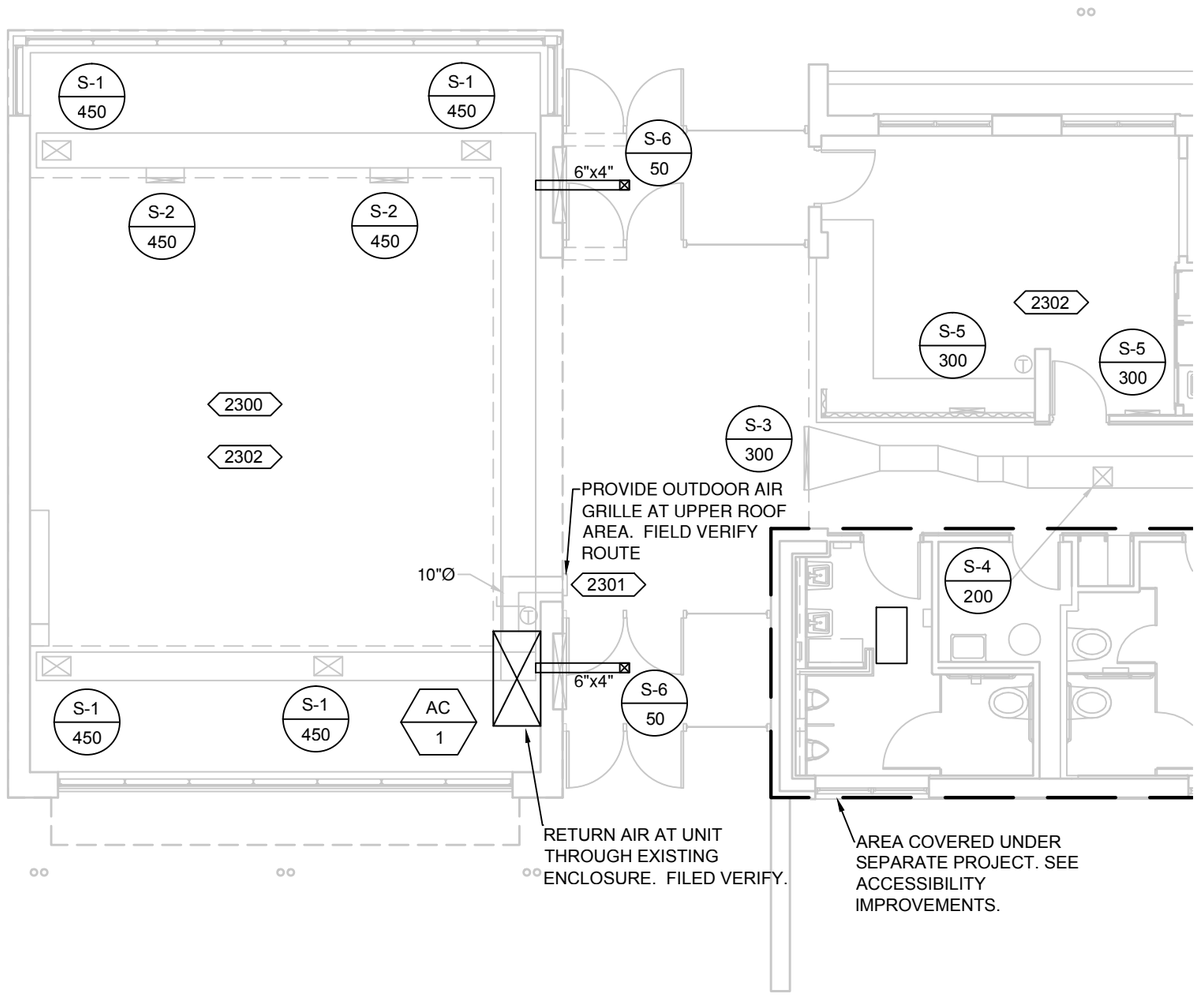
KANSAS DEPARTMENT OF TRANSPORTATION

MECHANICAL AND VENTILATION SCHEDULES

M.3.0

FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	61	143
F.A. NO.				



GENERAL NOTES:

1. ALL WORK SHALL CONFORM TO THE LATEST ADOPTED VERSION OF THE INTERNATIONAL MECHANICAL CODE (IMC).

2. ALL NEW DUCT CONSTRUCTION, GAUGES, METHODS OF HANGING AND SUPPORTING SHALL CONFORM TO THE LATEST SMACNA STANDARDS AND CHAPTER 6 OF THE IMC.

3. ALL NEW EXHAUST, RETURN, AND SUPPLY DUCTS SHALL BE CONSTRUCTED OF GALVANIZED SHEET METAL TO SMACNA 2" PRESSURE CLASS. ALL JOINTS AND SEAMS SHALL BE SEALED AIRTIGHT.

4. ALL NEW ROUND EXHAUST AND SUPPLY DUCTS SHALL BE STANDARD GALVANIZED "SNAP - LOCK" PIPE WITH ALL CHANGES IN DIRECTION MADE VIA ADJUSTABLE ELBOWS. ALL JOINTS AND SEAMS SHALL BE SEALED AIRTIGHT.

5. COORDINATE THE LOCATION OF DUCTWORK WITH THE PLACEMENT OF THE EXISTING LIGHT FIXTURES AND THE EXISTING STRUCTURAL MEMBERS.

6. LINE ALL NEW DUCTS WITH 1/2" INSULATION. (EXCLUDE EXHAUST AND DUCTS UNDER 10" IN DIAMETER OR 10" x 10" IN SIZE.) ALL DUCT DIMENSIONS GIVEN ON DRAWINGS ARE CLEAR INSIDE DIMENSIONS (W x D).

7. THE CONTRACTOR SHALL VERIFY ALL STRUCTURAL CONDITIONS FOR THE CEILING SPACE AND EXACT DUCT ROUTE PRIOR TO FABRICATION. VERIFY IN THE FIELD EXACT ROUTING OF DUCTWORK TO ALLOW PROPER LOCATION OF LIGHTS AS SHOWN.

8. ANY FRAMING REQUIRED FOR DIFFUSER INSTALLATION IN HARD CEILINGS SHALL BE BY THE GENERAL CONTRACTOR.

9. ANY EQUIPMENT THAT IS SUBSTITUTED SHALL FIT IN THE SPACE PROVIDED, WITH ADEQUATE ROOM FOR SERVICING.

10. HVAC UNITS SHALL BE MOUNTED LEVEL.

11. SUPPLY SPECIFIED EQUIPMENT OR APPROVED EQUAL.

12. CONTRACTOR SHALL REVIEW ALL EQUIPMENT NAME PLATES AND INSTALLATION REQUIREMENTS PRIOR TO DOING WORK. EQUIPMENT IS TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.

INSTALLATION NOTES: (THIS SHEET ONLY)

2300 EXISTING DUCTWORK TO REMAIN AND REUSED UNLESS OTHERWISE NOTED. DUCTWORK TO BE CLEANED. DUCTWORK JOINTS SHALL BE SEALED WHERE POSSIBLE.

2301 PROVIDE MINIMUM OF 200 CFM OUTDOOR AIR FROM ROOF INTAKE IN SIDE OF TRANSITION/ STEP WALL. INSTALL 12" x12" INTAKE LOUVRE WITH 10"Ø DUCT WITH BALANCING DAMPER TO RETURN AIR ON AC-1.

2302 CLEAN AND REPAINT DIFFUSERS TO MATCH EXISTING.

KANSAS DEPARTMENT OF TRANSPORTATION

MECHANICAL AIR SIDE WEST AND GENERAL NOTES

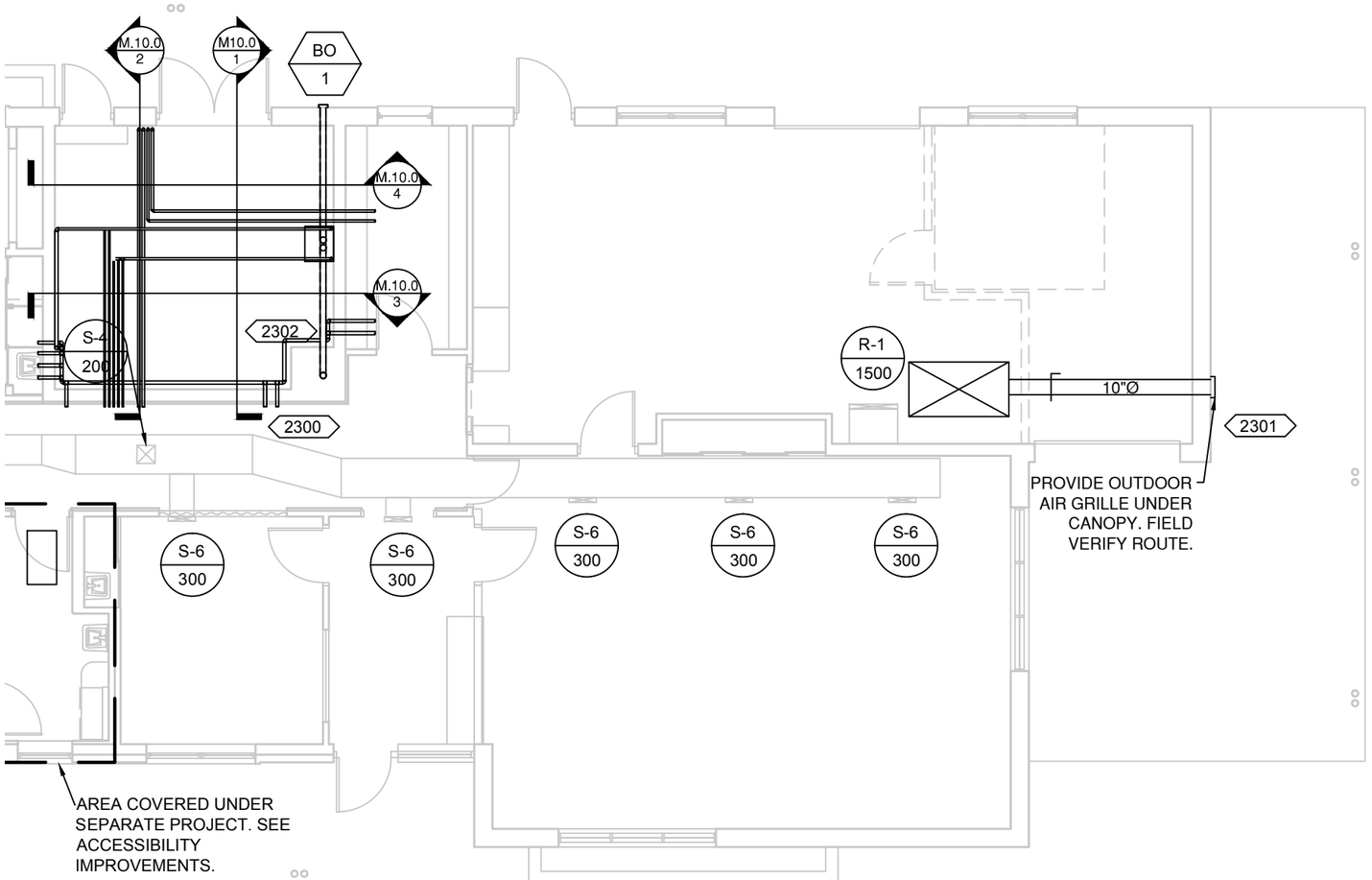
M.4.0

FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

1 MECHANICAL AIR SIDE PLAN WEST
SCALE: 1/8" = 1'-0"

BY	DATE
SURVEYED	
PLOTTED	
INKED	
DESIGNED	
SQUAD	

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	62	143
F.A. NO.				



INSTALLATION NOTES: (THIS SHEET ONLY)

2300 EXISTING DUCTWORK TO REMAIN AND REUSED UNLESS OTHERWISE NOTED. DUCTWORK TO BE CLEANED. DUCTWORK JOINTS SHALL BE SEALED WHERE POSSIBLE

2301 PROVIDE 250 CFM OF OUTDOOR AIR FROM UNDER CANOPY. INSTALL 14" x 14" INTAKE LOUVRE WITH 10"Ø DUCT WITH BALANCING DAMPER TO RETURN AIR ON AC-2.

2302 ROUTE FLUE FOR NEW BOILER THROUGH EXISTING CHIMNEY AND COMBUSTION AIR INTAKE TO EXTERIOR WALL ON THE NORTH.

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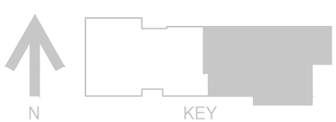


1 MECHANICAL AIR SIDE PLAN EAST
SCALE: 1/8" = 1'-0"

KANSAS DEPARTMENT OF TRANSPORTATION

MECHANICAL AIR SIDE EAST

M.5.0

FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	63	143
F.A. NO.				

INSTALLATION NOTES: (THIS SHEET ONLY)

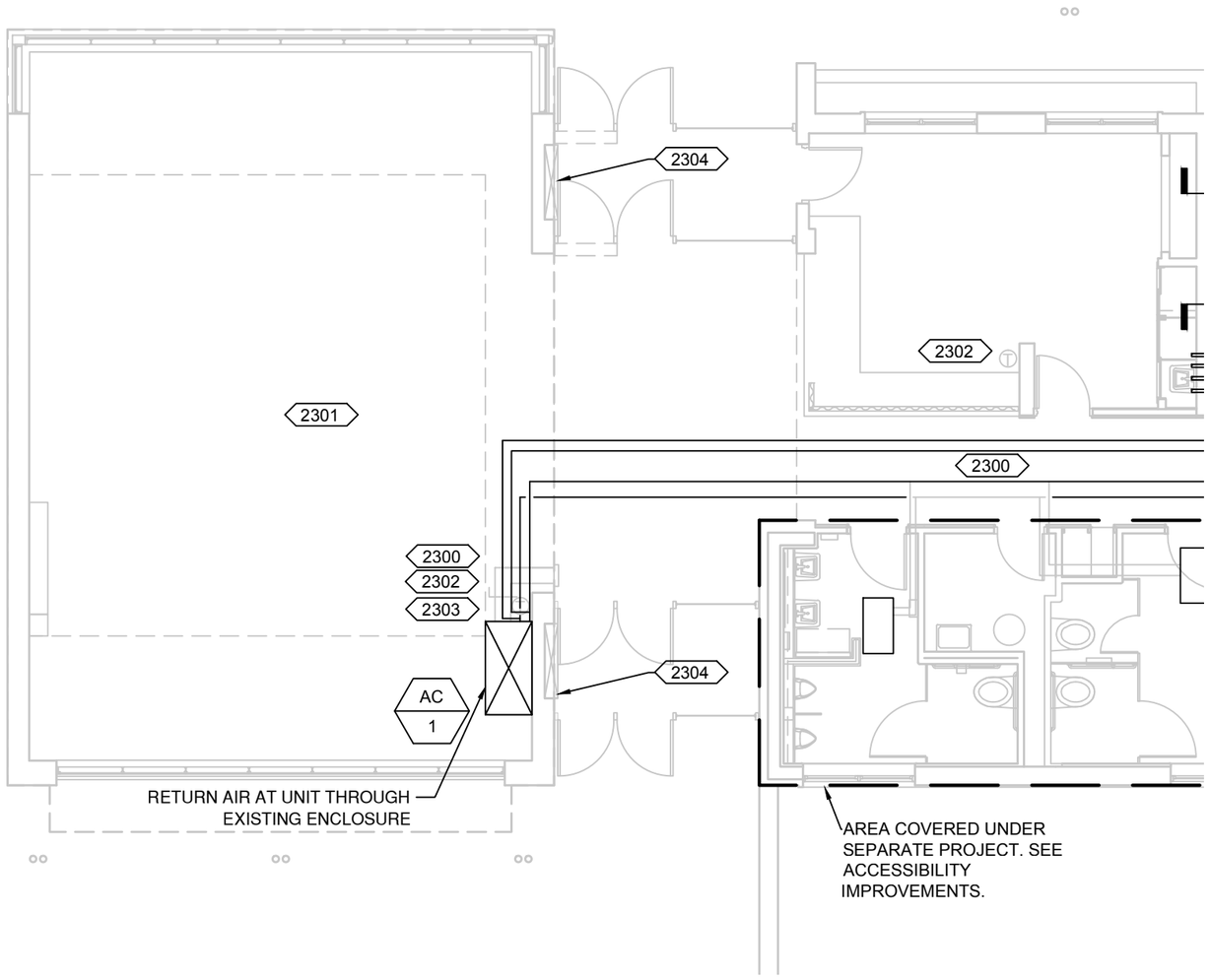
2300 INSTALL NEW GROUND-SOURCE HEAT PUMP IN EXISTING 4'11" W X 2'4" D X 9'4" H AIR-HANDELER CABINET. ROUTE NEW GROUND LOOP PIPING AND HOT WATER PIPING FROM BOILER ROOM ALONG ROUTE OF OLD CONDENSER WATER PIPING FROM COOLING TOWER AND BOILER ROOM. USE EXISTING PIPE HANGERS WHERE POSSIBLE.

2301 CONNECT EXISTING RADIANT FLOORING LOCATED IN THE WAITING ROOM AND OTHER ROOMS TO NEW BOILER, THERMOSTATIC VALVE, AND PUMP. SEE DETAILS DRAWING M10.0-1.

2302 EXISTING HISTORICAL THERMOSTAT TO REMAIN.

2303 INSTALL CO2 SENSOR TO CONTROL FRESH AIR DAMPER IN RETURN AIR DUCT FOR AIR HANDLER UNITS LOCATED IN THE WAITING ROOM AND BAGGAGE ROOM.

2304 VESTIBULE RADIATORS TO REMAIN IN PLACE IN NON-FUNCTIONAL CONDITION.



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1 MECHANICAL HYDRONIC FLOOR PLAN WEST
SCALE: 1/8" = 1'-0"

KANSAS DEPARTMENT OF TRANSPORTATION

MECHANICAL HYDRONIC FLOOR PLAN WEST

M.6.0

FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	64	143
F.A. NO.				

INSTALLATION NOTES: (THIS SHEET ONLY)

2300 INSTALL NEW GROUND-SOURCE HEAT PUMP IN EXISTING 5'6" W X 3' D X 5'2" H AIR-HANDELER CABINET. SEE DRAWING M.11.0

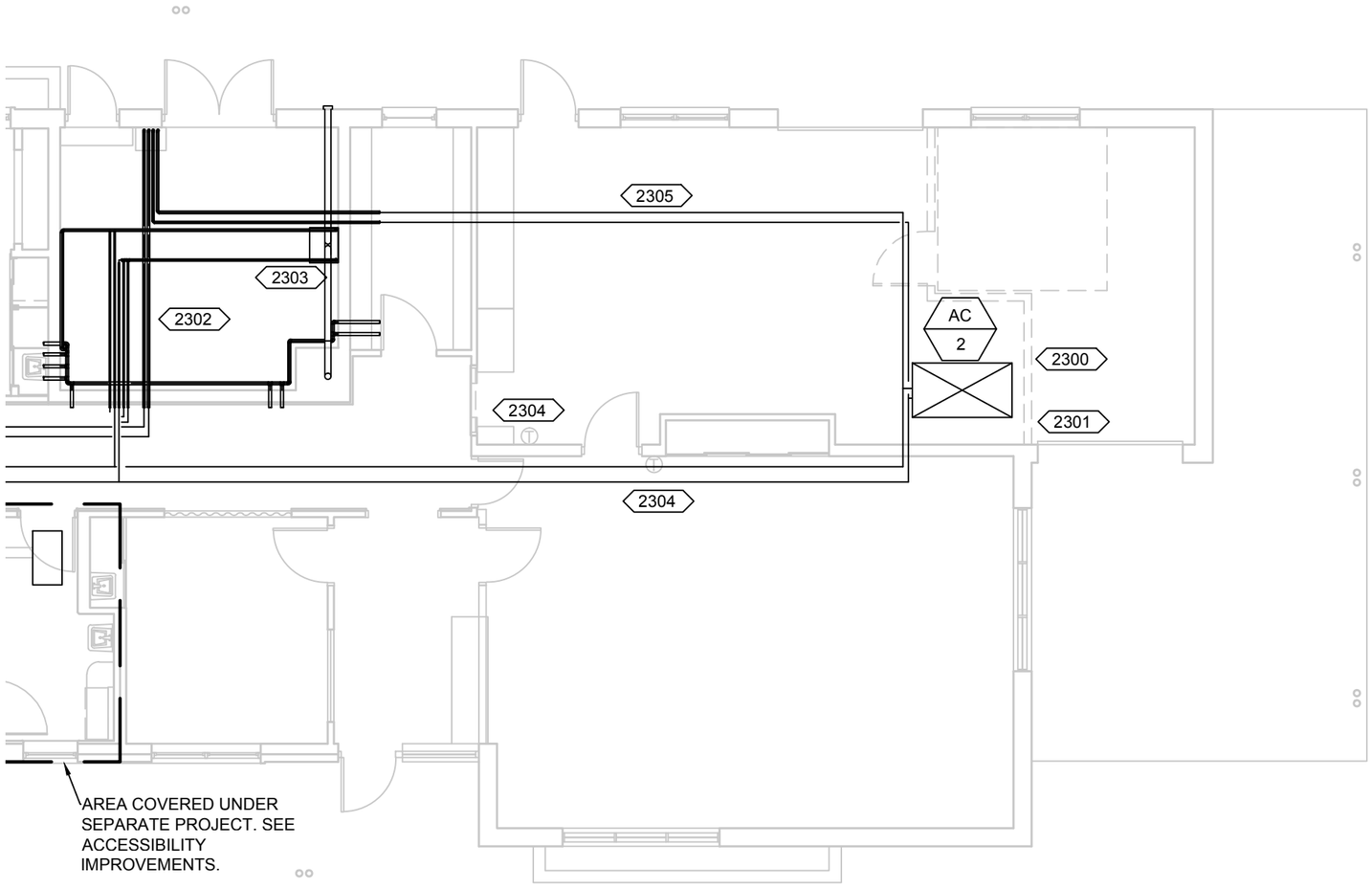
2301 INSTALL CO2 SENSOR TO CONTROL FRESH AIR DAMPER IN RETURN AIR DUCT FOR AIR HANDLER UNITS LOCATED IN THE WAITING ROOM AND BAGGAGE ROOM.

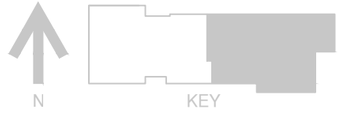
2302 SEE DRAWINGS M10.0 AND M12.0 FOR DETAILS OF BOILER ROOM LAYOUT.

2303 CONNECT NEW BOILER INTO EXISTING HOT WATER SUPPLY AND RETURN LINES.

2304 EXISTING HISTORICAL THERMOSTAT TO REMAIN.

2305 NEW PIPING TO AC-2 SHALL FOLLOW THE PATH TAKEN BY THE OLD CONDENSER WATER PIPE. REUSE PIPE HANGERS WHERE POSSIBLE FOR NEW GROUND LOOP PIPING AND HOT WATER PIPING.





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1 MECHANICAL HYDRONIC FLOOR PLAN EAST
SCALE: 1/8" = 1'-0"

KANSAS DEPARTMENT OF TRANSPORTATION

MECHANICAL HYDRONIC FLOOR PLAN EAST

M.7.0

FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	64	143
F.A. NO.				

INSTALLATION NOTES: (THIS SHEET ONLY)

2300 INSTALL NEW GROUND-SOURCE HEAT PUMP IN EXISTING 5'6" W X 3' D X 5'2" H AIR-HANDELER CABINET. SEE DRAWING M.11.0

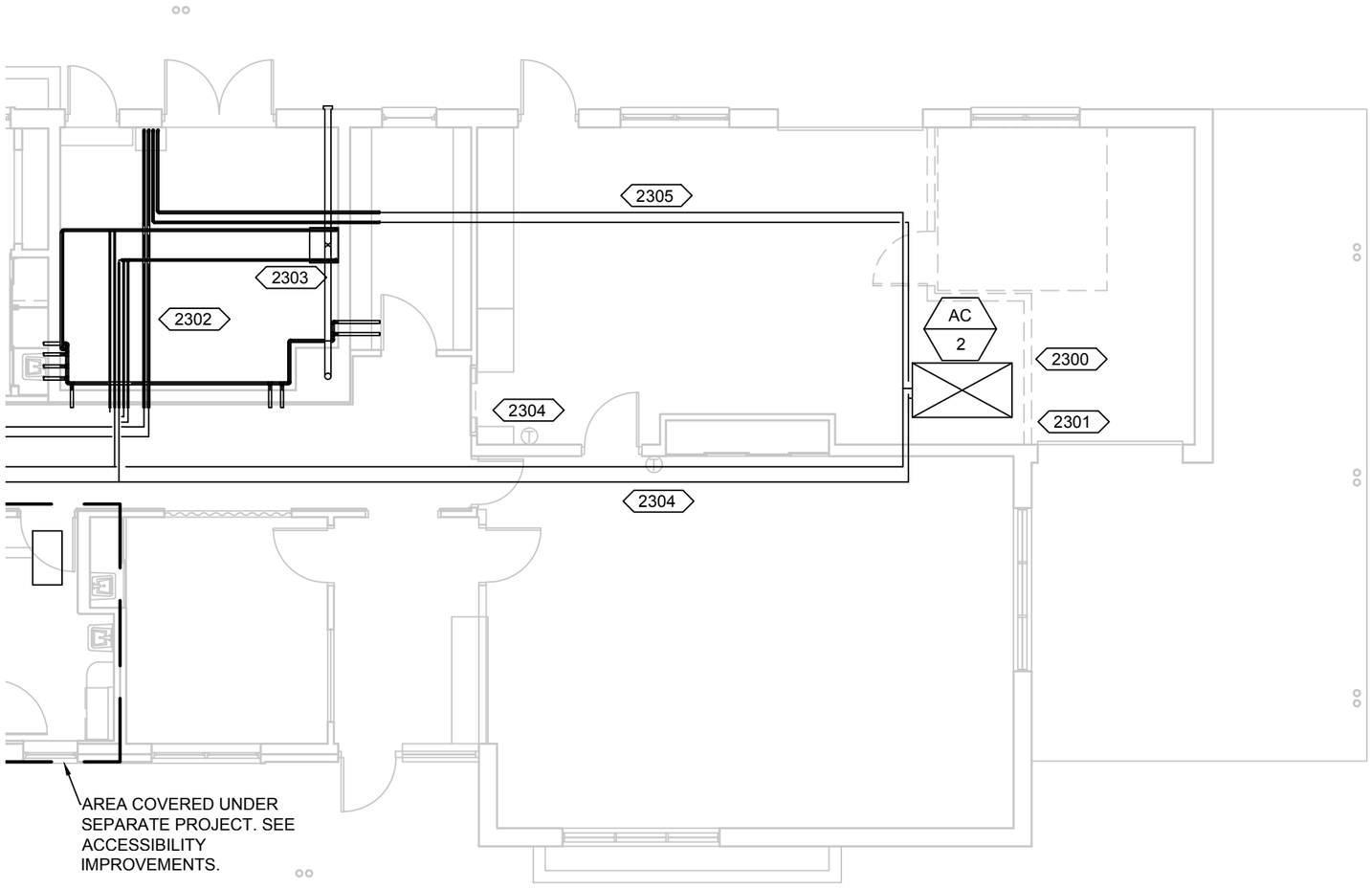
2301 INSTALL CO2 SENSOR TO CONTROL FRESH AIR DAMPER IN RETURN AIR DUCT FOR AIR HANDLER UNITS LOCATED IN THE WAITING ROOM AND BAGGAGE ROOM.

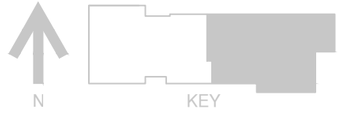
2302 SEE DRAWINGS M10.0 AND M12.0 FOR DETAILS OF BOILER ROOM LAYOUT.

2303 CONNECT NEW BOILER INTO EXISTING HOT WATER SUPPLY AND RETURN LINES.

2304 EXISTING HISTORICAL THERMOSTAT TO REMAIN.

2305 NEW PIPING TO AC-2 SHALL FOLLOW THE PATH TAKEN BY THE OLD CONDENSER WATER PIPE. REUSE PIPE HANGERS WHERE POSSIBLE FOR NEW GROUND LOOP PIPING AND HOT WATER PIPING.





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1 MECHANICAL HYDRONIC FLOOR PLAN EAST
SCALE: 1/8" = 1'-0"

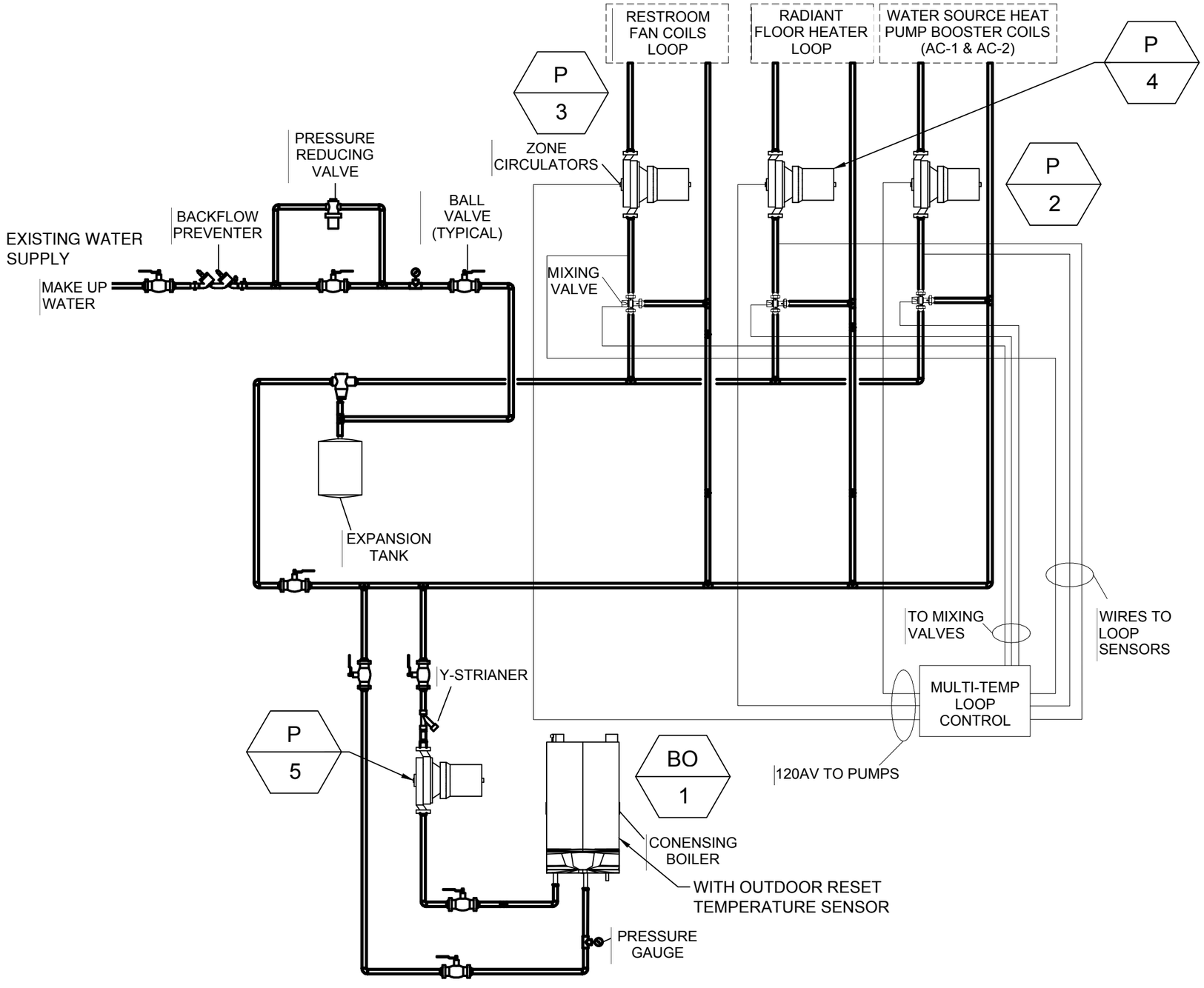
KANSAS DEPARTMENT OF TRANSPORTATION

MECHANICAL HYDRONIC FLOOR PLAN EAST

M.7.0

FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	65	143
F.A. NO.				



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1 BOILER ROOM PIPING SCHEMATICS, NEW HOT WATER SYSTEM
SCALE: NTS

KANSAS DEPARTMENT OF TRANSPORTATION

BOILER ROOM PIPING SCHEMATICS

M.8.0

FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	66	143
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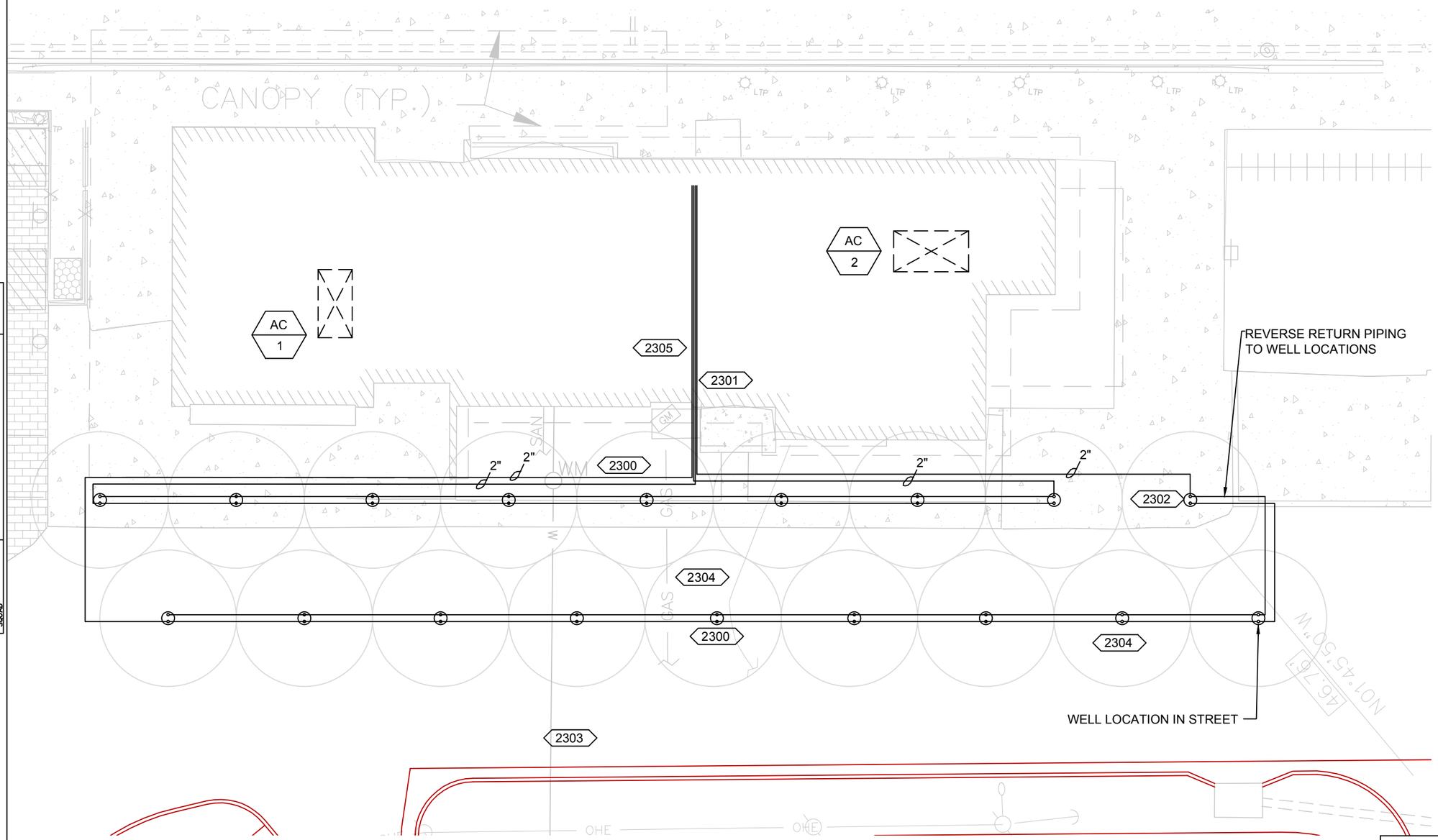

INSTALLATION NOTES: (THIS SHEET ONLY)

2300 REVERSE RETURN PIPING FOR EACH OF TWO GROUND SOURCE LOOPS. ONE LOOP PER UNIT.

2301 GROUND-SOURCE WATER LINES RUN AT A MINIMUM DEPTH OF 3.5 FEET BELOW GROUND SURFACE LEVEL TO KEEP LINES FROM FREEZING. LINES TO ENTER EXISTING GAS METER PIT AND THEN BORE UNDER BUILDING TO EXISTING PIT IN BOILER ROOM.

2302 GROUND LOOP WELLS TO REACH A DEPTH OF 250 FEET WITH 3/4" PIPING. OWNER SHALL PROVIDE TEST WELL INFORMATION FOR DETERMINATION IF CASING WILL BE REQUIRED FOR THE WELLS. REPAIR PAVEMENT PER CITY SPECIFICATION.

2303 EXISTING UTILITY LINES UNCOVERED DURING EXCAVATION SHALL BE PROTECTED FROM DAMAGE DURING EXCAVATION AND BACKFILLING

2304 RESONABLE CARE SHALL BE TAKEN TO ENSURE THAT THE GEOTHERMAL PIPING IS NOT CRUSHED, KINKED, OR CUT. SHOULD ANY PIPE BE DAMAGED, THE DAMAGED SECTION SHALL BE CUT OUT AND THE PIPE RECONNECTED BY HEAT FUSION.

2305 NO VARIATIONS SHALL BE MADE IN THE CIRCUIT HOOKUP OR PIPE SIZES THAT ARE INDICATED.

1 SITE MAP AND WELL LOCATION

SCALE: 1/16" = 1'-0"

KANSAS DEPARTMENT OF TRANSPORTATION

SITE MAP/GSHP WELL LOCATIONS

M.9.0

FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	67	143
F.A. NO.				

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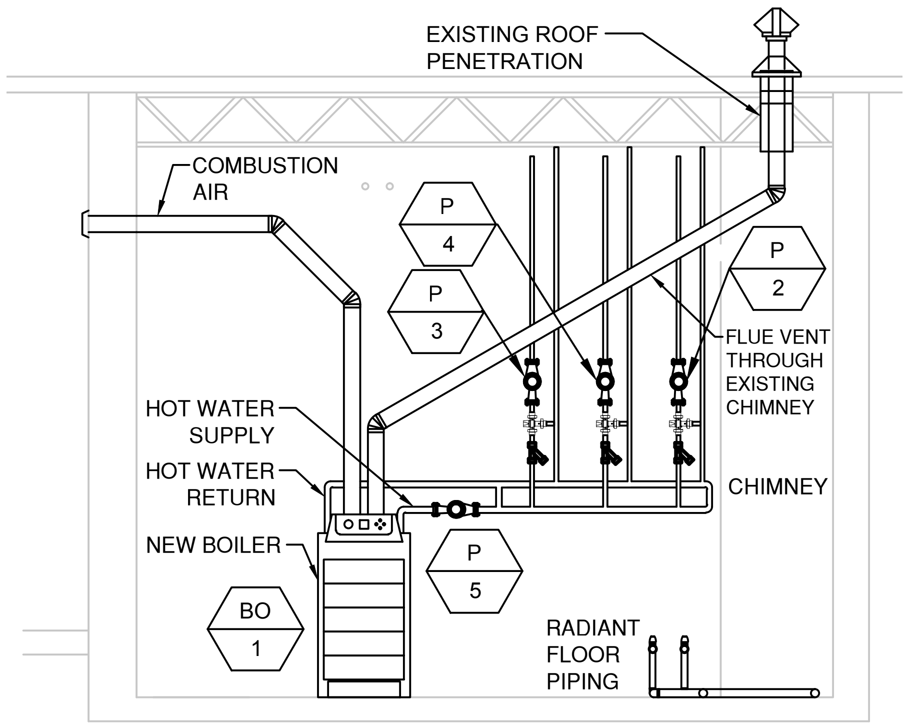
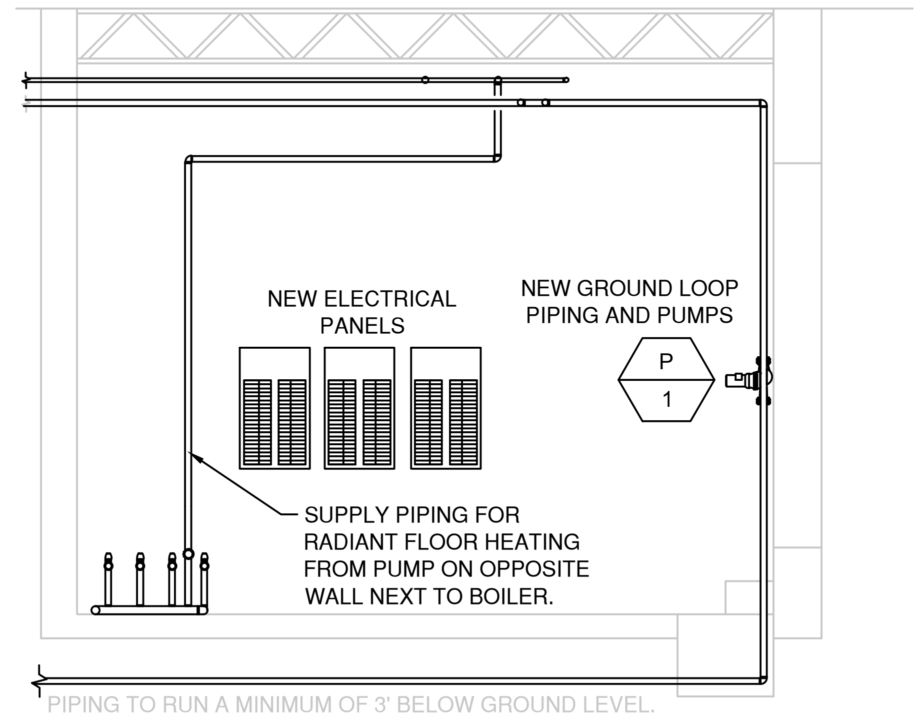
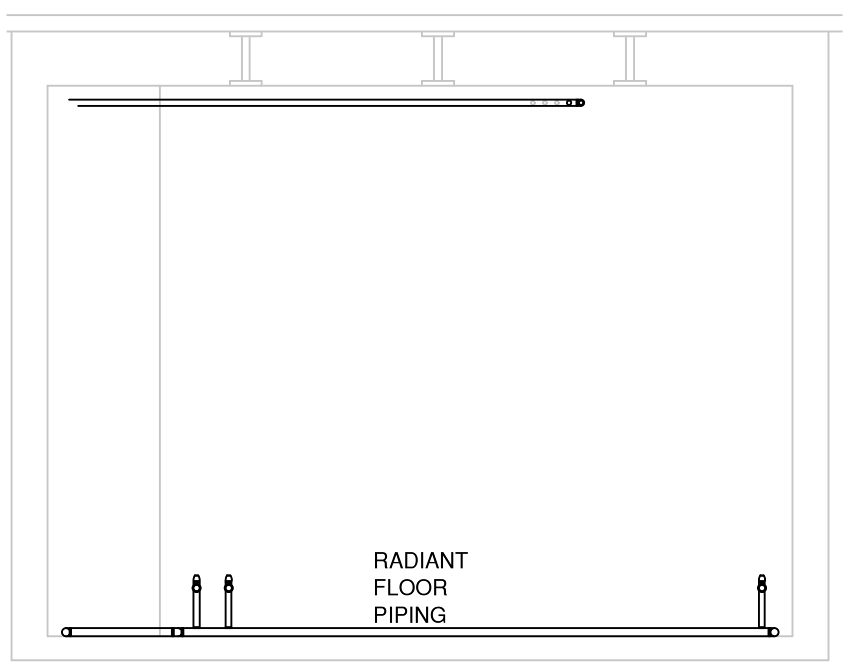


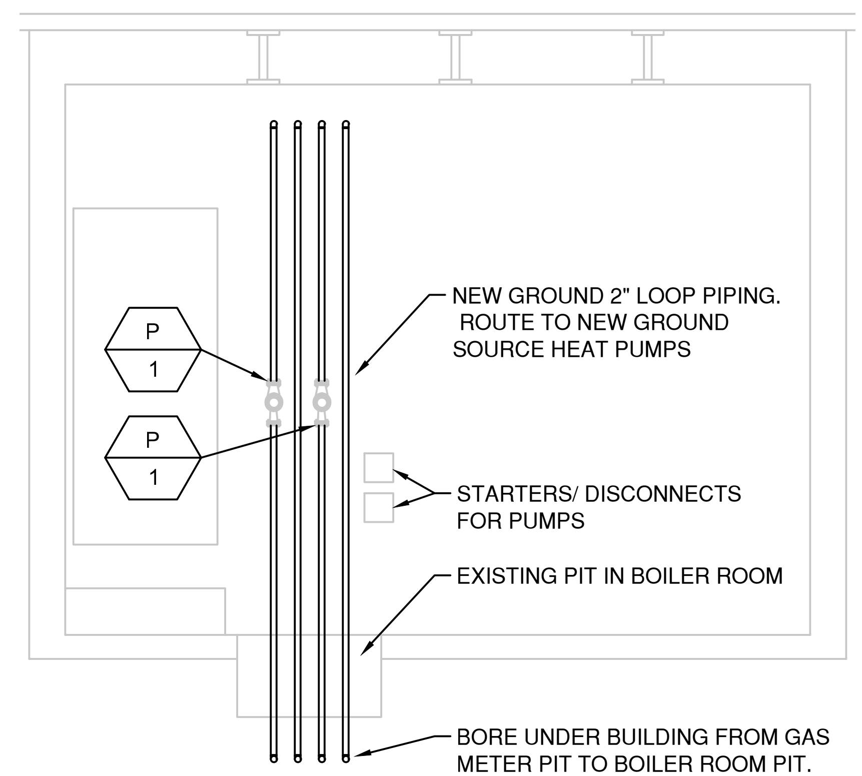
SEE DRAWING M.8.0 FOR MORE COMPONENTS ASSOCIATED WITH THE NEW BOILER.



1 BOILER ROOM ELEVATION EAST
SCALE: 1/4" = 1'-0"

2 BOILER ROOM SECTION WEST
SCALE: 1/4" = 1'-0"





3 BOILER ROOM SECTION SOUTH
SCALE: 1/4" = 1'-0"

4 BOILER ROOM SECTION NORTH
SCALE: 1/4" = 1'-0"

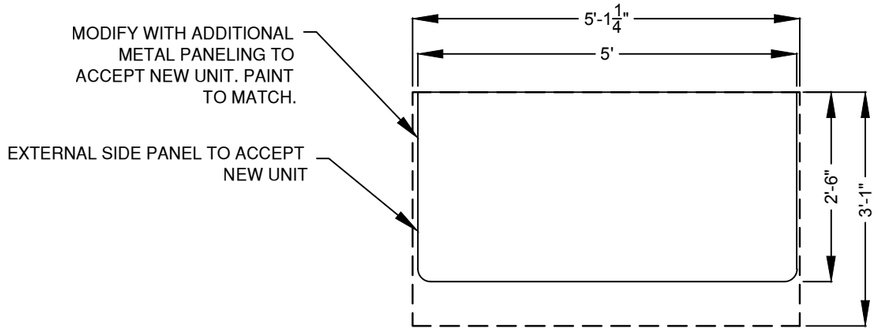
KANSAS DEPARTMENT OF TRANSPORTATION

BOILER ROOM ELEVATIONS & SECTIONS

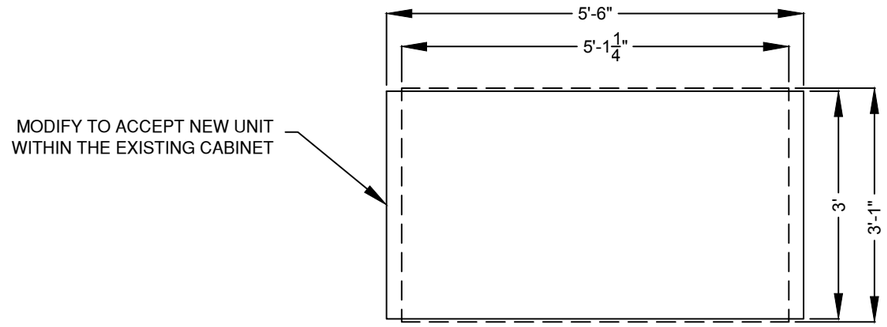
M.10.0

FHWA APPROVAL	XX-XX-XX	APP'D	XXX
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	68	143
F.A. NO.				

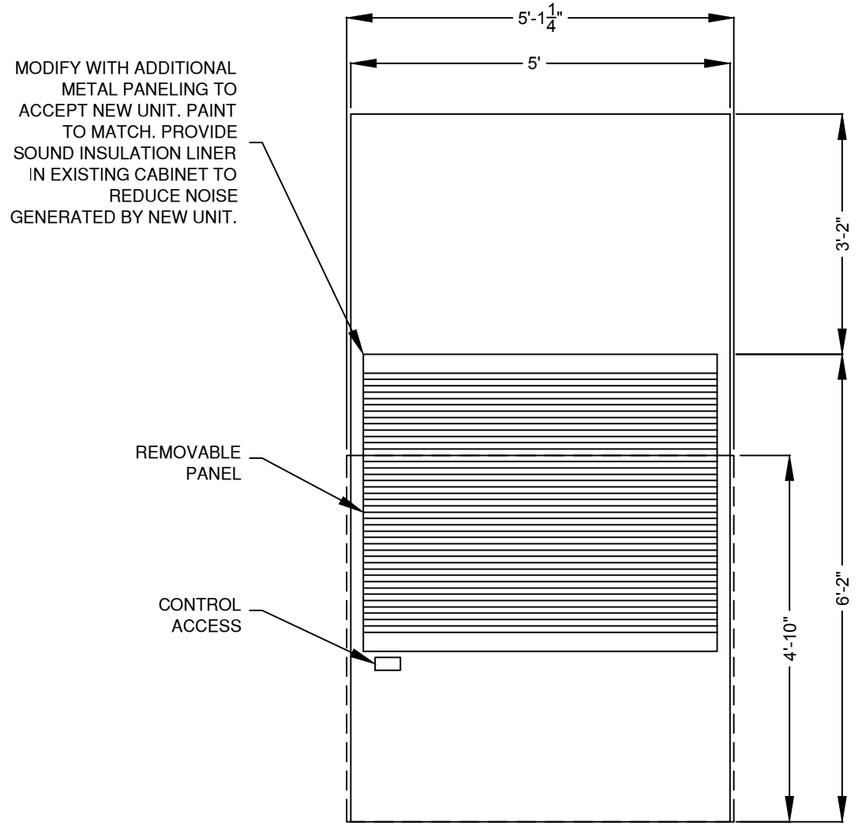


1 WAITING ROOM AH CABINET DETAIL PLAN
SCALE: 1/2" = 1'-0"

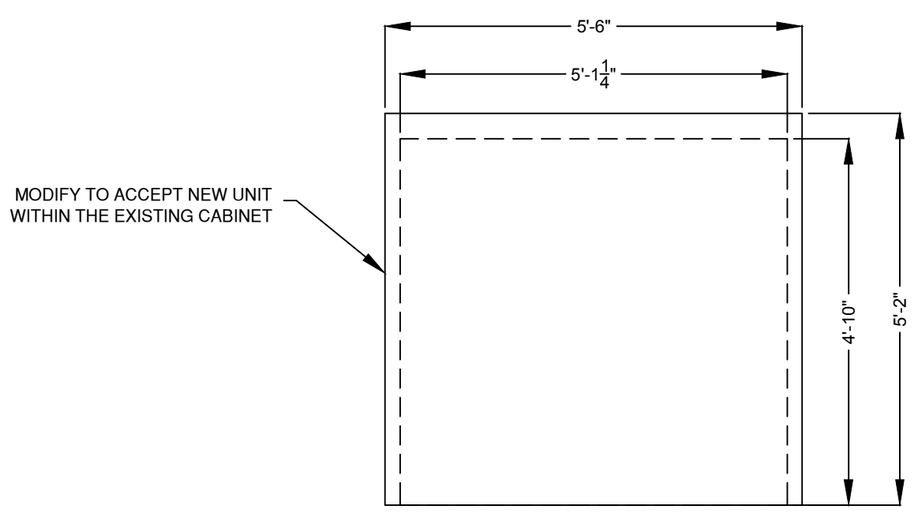


2 BAGGAGE ROOM AH CABINET DETAIL PLAN
SCALE: 1/2" = 1'-0"

DATE | BY | SURVEYED | PLOTTED | INKED | DESIGNED | SQUAD



3 WAITING ROOM AH CABINET DETAIL SECTION
SCALE: 1/2" = 1'-0"



4 BAGGAGE ROOM AH CABINET DETAIL SECTION
SCALE: 1/2" = 1'-0"

KANSAS DEPARTMENT OF TRANSPORTATION

AIR HANDLER CABINET DETAILS

M.11.0

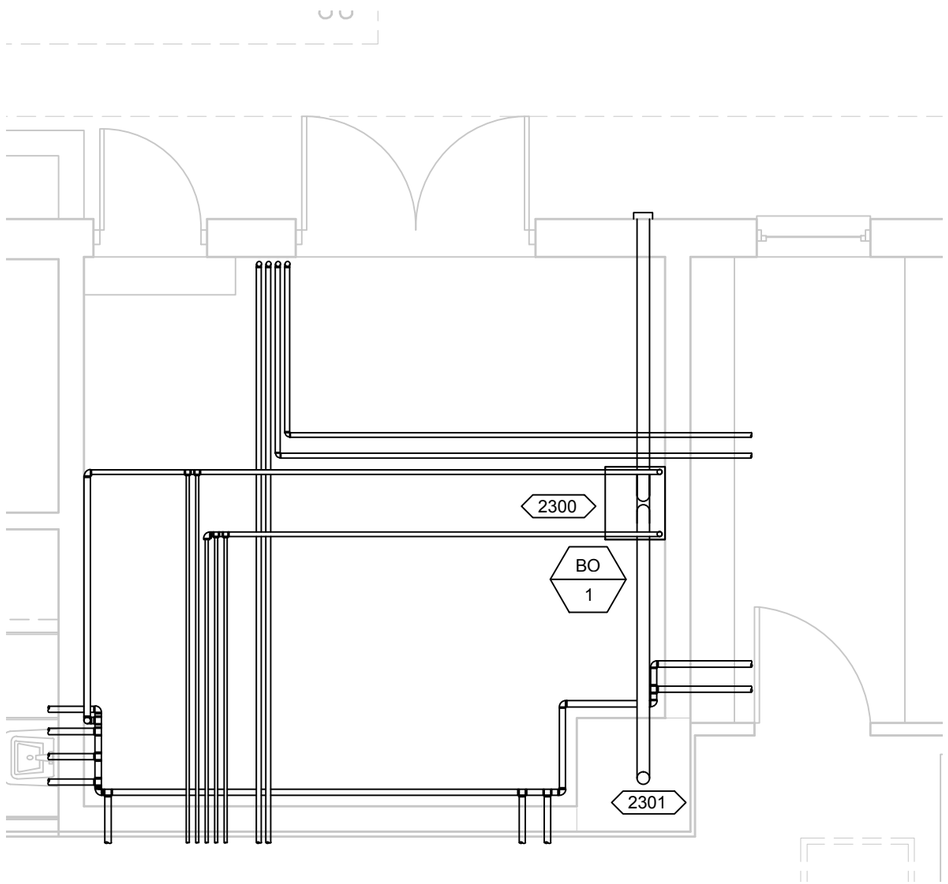
FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	69	143
F.A. NO.				

INSTALLATION NOTES: (THIS SHEET ONLY)

2300 CONNECT NEW BOILER INTO EXISTING HOT WATER SUPPLY AND RETURN LINES FOR HEATING EQUIPMENT. SEE DRAWINGS M.8.0 AND M.10.0 FOR ADDITIONAL INFORMATION.

2301 ROUTE COMBUSTION AIR AND FLUE VENTS LINES THROUGH EXISTING WALL PARTITION. USE EXISTING ROOF PENETRATION FOR NEW FLUE.



1 ENLARGED BOILER ROOM MECHANICAL PLAN
SCALE: 1/4" = 1'-0"

DATE
BY
SURVEYED
PLOTTED
INKED
DESIGNED
SQUAD

KANSAS DEPARTMENT OF TRANSPORTATION

ENLARGED BOILER ROOM PLAN

M.12.0

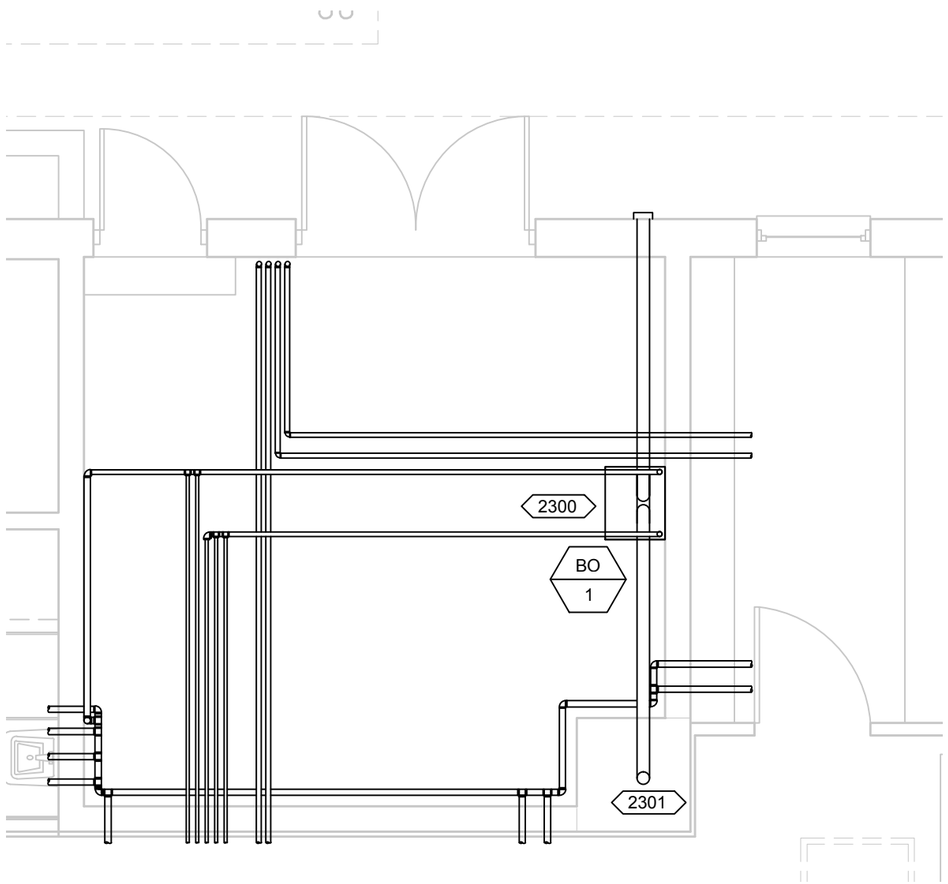
FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	69	143
F.A. NO.				

INSTALLATION NOTES: (THIS SHEET ONLY)

2300 CONNECT NEW BOILER INTO EXISTING HOT WATER SUPPLY AND RETURN LINES FOR HEATING EQUIPMENT. SEE DRAWINGS M.8.0 AND M.10.0 FOR ADDITIONAL INFORMATION.

2301 ROUTE COMBUSTION AIR AND FLUE VENTS LINES THROUGH EXISTING WALL PARTITION. USE EXISTING ROOF PENETRATION FOR NEW FLUE.



1 ENLARGED BOILER ROOM MECHANICAL PLAN
SCALE: 1/4" = 1'-0"

DATE
BY
SURVEYED
PLOTTED
INKED
DESIGNED
SQUAD

KANSAS DEPARTMENT OF TRANSPORTATION

ENLARGED BOILER ROOM PLAN

M.12.0

FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	70	143
F.A. NO.				

DEMOLITION NOTES: (THIS SHEET ONLY)

0220 EXISTING WATER CLOSET TO BE REMOVED, DISPOSED OF PROPERLY, AND REPLACED WITH NEW WALL HUNG FIXTURE AND CARRIERS PER PLUMBING FIXTURE SCHEDULE. REMOVE AND DISPOSE OF PROPERLY ALL ASSOCIATED SANITARY PIPING AND OLD WATER CLOSET HANGERS. PREPARE DOMESTIC WATER PIPING AND SANITARY DRAIN AND VENT PIPING FOR CONNECTION TO NEW PIPING.

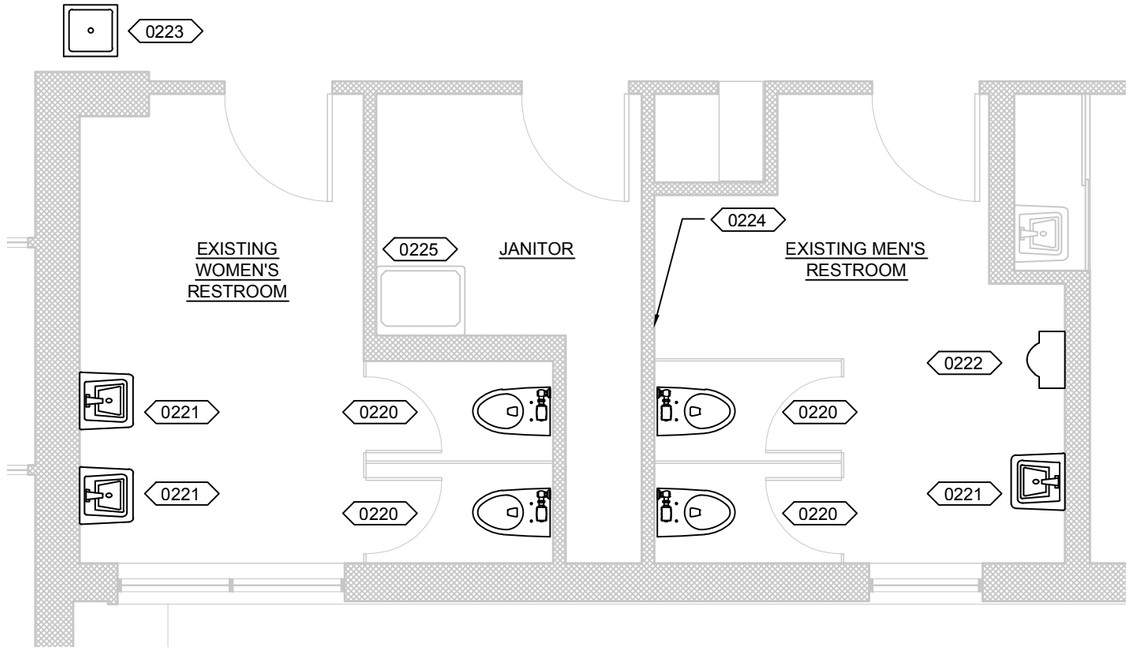
0221 EXISTING LAVATORIES TO BE REUSED WITH NEW CARRIERS, DISPOSE OF FAUCETS.

0222 REMOVE EXISTING URINAL AND PROPERLY DISPOSE.

0223 REMOVE EXISTING DRINKING FOUNTAIN AND PROPERLY DISPOSE OF THE UNIT. EXISTING OPENING IN STONE TO BE WIDENED AS NEEDED TO GAIN ACCESS TO PLUMBING AND INSTALL NEW 2-LEVEL ADA COMPLIANT DRINKING FOUNTAIN. REFERENCE SHEET P5.0 FOR DETAILS.

0224 EXISTING WALL TO BE REMOVED PER ARCHITECTURAL PLANS.

0225 EXISTING MOP SINK IN JANITOR CLOSET TO REMAIN.



1 PLUMBING DEMOLITION
SCALE: 1/4" = 1'-0"

GENERAL NOTES:

1. ALL NEW WORK SHALL CONFORM TO THE LATEST ADOPTED VERSION OF THE INTERNATIONAL PLUMBING CODE.

2. TYPE L HARD COPPER WITH 95/90 SOLDERED FITTINGS SHALL BE USED FOR ALL DOMESTIC WATER PIPING. PEX DOMESTIC WATER PIPING MAY BE USED WHERE ALLOWED BY CODE AND WHERE CONTRACTOR PROVIDES EVIDENCE OF TRAINING ON PEX PIPING INSTALLATION.

3. STANDARD WEIGHT CENTRIFUGALLY CAST, CAST IRON DWV PIPE WITH "NO-HUB" FITTINGS AND JOINTS SHALL BE USED FOR SOIL, WASTE, AND VENT PIPING. STANDARD WEIGHT CENTRIFUGALLY CAST, CAST IRON DWV PIPE WITH "TY-SEAL" FITTINGS AND JOINTS SHALL BE USED FOR SOIL, WASTE, AND VENT PIPING BELOW GRADE. PVC DWV MAY BE USED WHERE ALLOWED BY CODE.

4. PIPE HANGERS SHALL BE DESIGNED FOR FERROUS, PLASTIC, AND COPPER PIPE WITH HANGER RODS IN DIAMETERS AS REQUIRED BY HANGERS. HANGER SPACING SHALL BE IN ACCORDANCE WITH THE INTERNATIONAL PLUMBING CODE.

5. DOMESTIC HOT AND COLD WATER LINES SHALL BE INSULATED WITH 1/2" THICK FIBERGLASS PREFORMED INSULATION WITH SELF-SEALING JOINTS. THE COLD WATER PIPING SYSTEM SHALL BE PROVIDED WITH A VAPOR BARRIER. PEX PIPING MAY BE INSTALLED WITHOUT INSULATION.

6. EXPOSED HANDICAPPED LAVATORY P-TRAPS AND SUPPLY FITTINGS SHALL BE INSULATED WITH PREFORMED FLEXIBLE CELLULAR INSULATION.

7. ALL PIPING SYSTEMS SHALL BE TESTED BEFORE COVERING AND CONCEALING IN THE PRESENCE OF THE OWNER OR THE OWNER'S REPRESENTATIVE. ALL LEAKS SHALL BE REPAIRED IN A SATISFACTORY MANNER.

8. TEST DOMESTIC WATER PIPING AT 100 PSI.

9. SOIL AND WASTE PIPE SHALL SLOPE 2% MINIMUM, UNLESS OTHERWISE NOTED OR REQUIRED BY CODE.

10. CONTRACTOR SHALL VERIFY THE LOCATION OF THE SANITARY SEWER AND SHALL REVISE THE SEWER SYSTEM AS REQUIRED.

11. ALL CLEANOUTS SHALL BE INSTALLED WHERE READILY ACCESSIBLE. THE CONTRACTOR SHALL COORDINATE ALL CLEANOUT LOCATIONS WITH EQUIPMENT, CABINETS, ETC. AND THE OWNER'S REPRESENTATIVE PRIOR TO ANY INSTALLATION.

12. INSTALL SHUT-OFF VALVES ON ALL HOT & COLD WATER LINES TO FIXTURE OR APPLIANCE. ALL EXPOSED WATER AND WASTE LINES TO BE CHROMED PLATED.

13. ALL VALVES, UNIONS, ETC. TO BE THE SAME SIZE AS THE PIPE UNLESS OTHERWISE INDICATED ON DRAWINGS.

14. PROVIDE EITHER WATER HAMMER ARRESTOR OR AIR CHAMBERS FOR WATER LINES AS REQUIRED BY CODE. THIS SHALL INCLUDE ALL FLUSH VALVE PLUMBING EQUIPMENT.

15. CONTRACTOR SHALL COORDINATE INSTALLATION OF PLUMBING WORK WITH ALL OTHER TRADES SO AS TO AVOID UNNECESSARY DELAY OF INTERFERENCES. CONTRACTOR TO REVIEW ARCHITECTURAL AND EQUIPMENT SHEETS.

KANSAS DEPARTMENT OF TRANSPORTATION

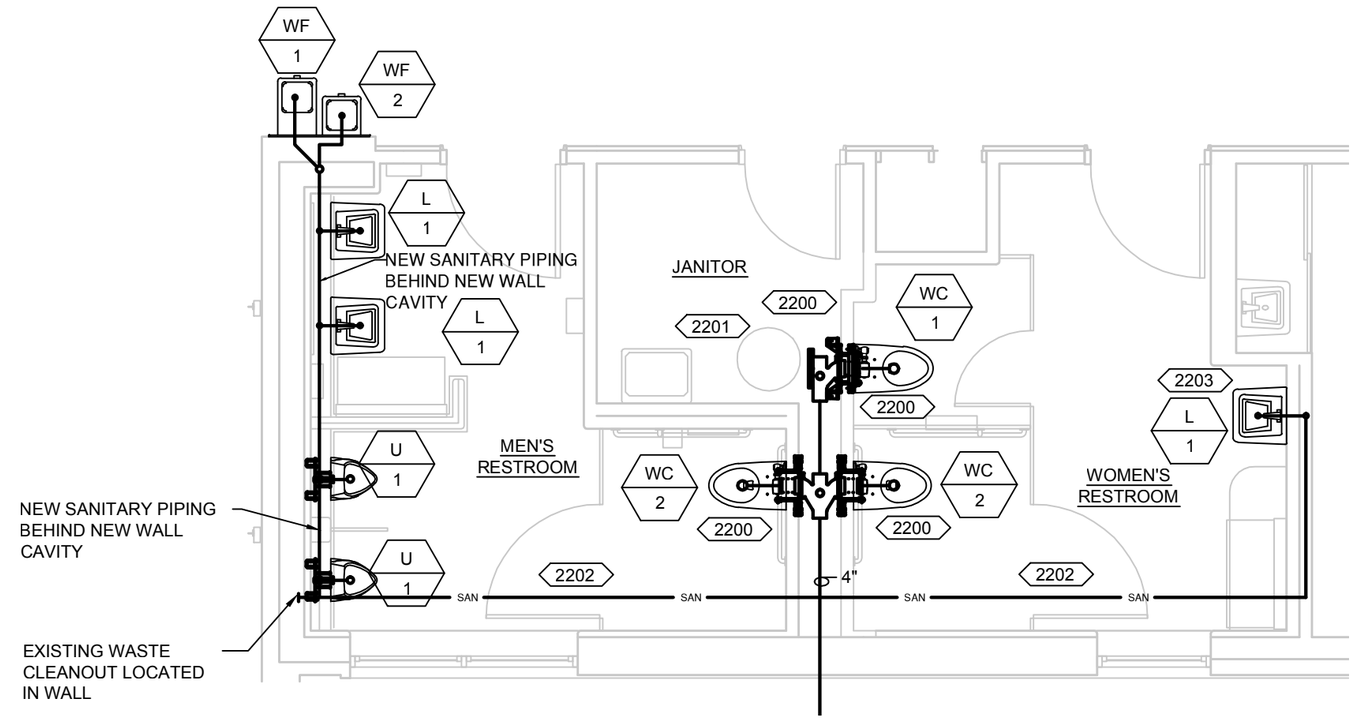
DEMO PLAN & GENERAL NOTES

P.A.1

FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

DATE	BY	
		SURVEYED
		PLOTTED
		INKED
		DESIGNED
		SQUAD

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	71	143
F.A. NO.				



INSTALLATION NOTES: (THIS SHEET ONLY)

2200 WATER CLOSET CARRIERS SHALL BE ANCHORED TO NEW 6" CONCRETE SLAB. FORM AND POUR WITH WALL REMOVED (SEE DEMOLITION PLAN)

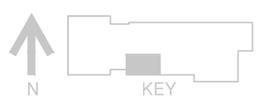
2201 MOVE WATER HEATER AS NECESSARY TO ACCESS SANITARY PIPING FOR NEW CARRIERS. WATER HEATER SHALL BE RE-INSTALLED ONCE ALL WORK IS COMPLETED.

2202 EXISTING SANITARY LINE. FIELD VERIFY.

2203 CONNECT LAVATORY INTO SANITARY LINE THAT WAS USED FOR URINAL.

PLUMBING LEGEND:

- HW — DOMESTIC HOT WATER
- CW — DOMESTIC COLD WATER
- SAN — WASTE LINE
- VENT LINE
- PLUMBING FIXTURE DESIGNATION / DESIGNATED NUMBER



DATE	BY
SURVEYED	
PLOTTED	
INKED	
DESIGNED	
SQUAD	

1 SANITARY PLUMBING PLAN
SCALE: 1/4" = 1'-0"

KANSAS DEPARTMENT OF TRANSPORTATION

SANITARY PLUMBING PLAN

P.A.2

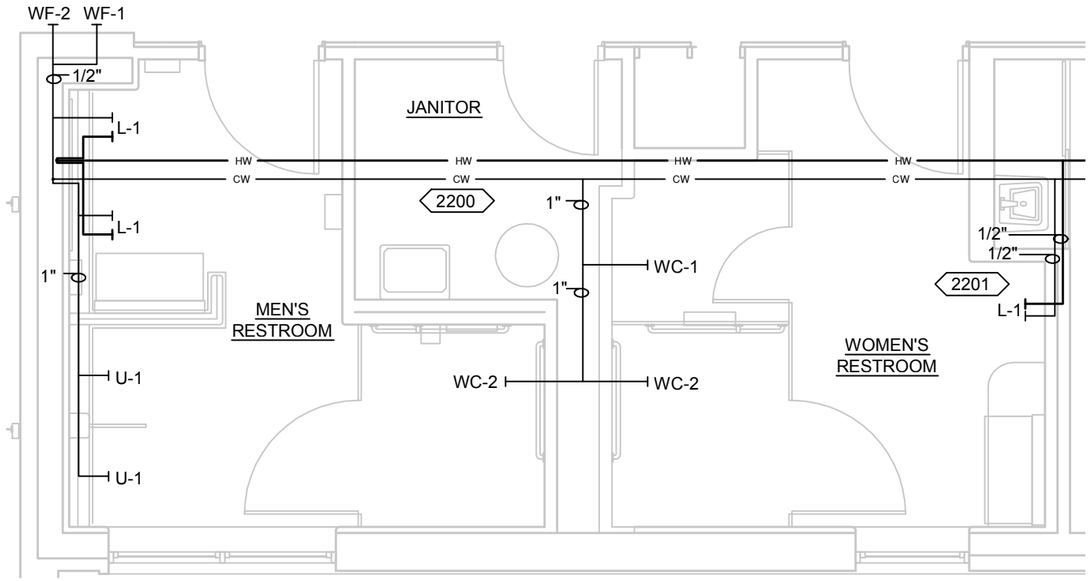
FHWA APPROVAL XX-XX-XX		APP'D	XXX
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	72	143
F.A. NO.				

INSTALLATION NOTES: (THIS SHEET ONLY)

2200 FIELD VERIFY WATER SUPPLY LINES IN JANITOR CLOSET.

2200 ROUTE NEW HOT WATER LINE DOWN IN WALL FOR NEW LAVATORY.



PLUMBING LEGEND:	
HW	DOMESTIC HOT WATER
CW	DOMESTIC COLD WATER
SAN	WASTE LINE
	VENT LINE
	PLUMBING FIXTURE DESIGNATION DESIGNATED NUMBER

KANSAS DEPARTMENT OF TRANSPORTATION

DOMESTIC SUPPLY PLAN

P.A.3

FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

1 DOMESTIC PLUMBING SUPPLY PLAN
SCALE: 1/4" = 1'-0"

DATE
BY
SURVEYED
PLOTTED
INKED
DESIGNED
SQUAD

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	73	143
F.A. NO.				

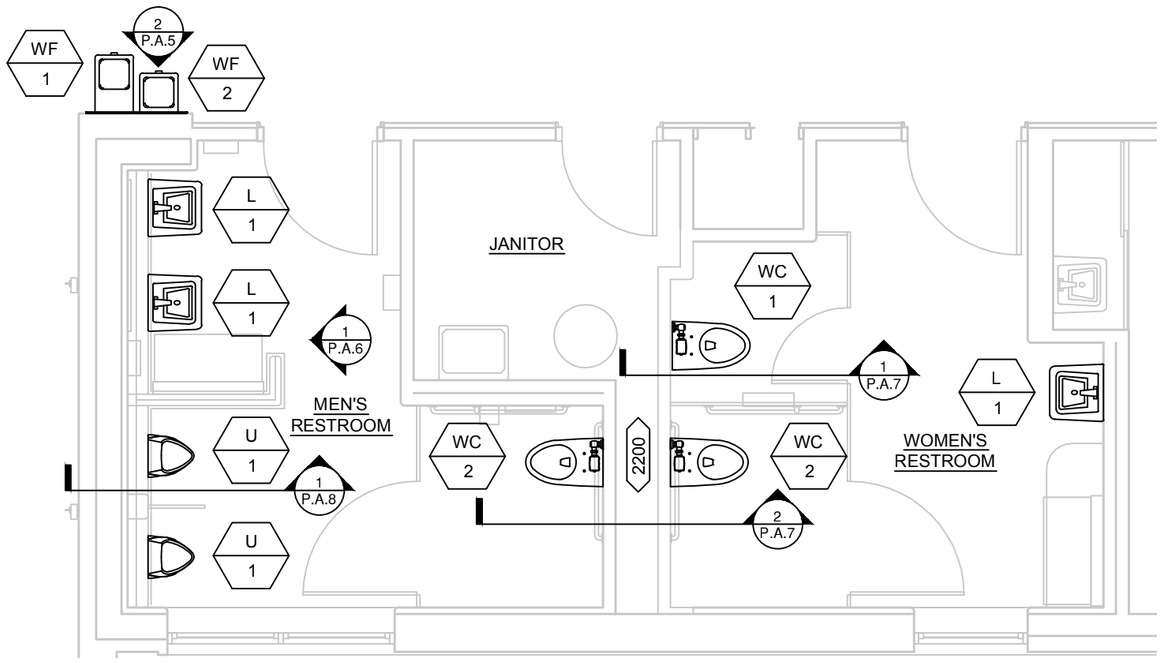
PROJECT PLUMBING FIXTURE SCHEDULE

ITEM	FIXTURE	SOIL OR WASTE	VENT	COLD WATER	HOT WATER	WASTE FU	WATER FU	DESCRIPTION
WC 1	WATER CLOSET	4"	2"	1"	--	4	5	TOTO CT708E WALL-MOUNTED FLUSHOMETER TOILET MOUNTED AT 14.5" A.F.F., 1.28GPF, USE ZURN CARRIER Z1203-N-XB, FLUSH VALVE: TOTO TET1LN32, OR AMERICAN STANDARD AFWALL 2257.00, 1.1 GPF, USE JOSAM 12704, FLUSH VALVE: 6067.11.002, OR EQUIVALENT.
WC 2	WATER CLOSET	4"	2"	1"	--	4	5	TOTO CT708E WALL-MOUNTED FLUSHOMETER TOILET MOUNTED AT 17" A.F.F., 1.28GPF, USE ZURN CARRIER Z1203-ND4 (BACK-TO-BACK), FLUSH VALVE: TOTO TET1LN32, OR AMERICAN STANDARD AFWALL 2257.00, 1.1 GPF, USE JOSAM 12704-35, FLUSH VALVE: 6067.11.002, OR EQUIVALENT.
U 1	URINAL	2"	2"	1"	--	2	5	TOTO CONCEALED INTEGRAL TRAP LOW CONSUMPTION WASHOUT URINAL MODEL UT104EV W/ ¾" BACK SPUD. TOTO TEU2LN11 FLUSH VALVE, ZURN Z-1221 FLOOR SUPPORTED CARRIER. MOUNT RIM AT 17" A.F.F. INSTALL TO MEET ADA REQUIREMENTS, OR AMERICAN STANDARD ALLBROOK 6550.00, 1.0 GPF, USE JOSAM 17550-UR, FLUSH VALVE: 6062.101, OR EQUIVALENT.
L 2	LAVATORY	2"	2"	1/2"	1/2"	1	2	EXISTING LAVATORY TO BE RE-USED, INSTALL WITH ZURN CARRIER Z1224 (FIELD VERIFY CARRIER CONFIGURATION FOR EXISTING LAVATORY PRIOR TO ORDERING), CHICAGO FAUCETS 2200-4ABCP ADA SINGLE LEVER FAUCET OR AMERICAN STANDARD INNSBROOK SELECTRONIC 6055.205 (OR EQUIVALENT). FIELD VERIFY EXISTING SINK CONFIGURATION FOR FAUCET COMPATIBILITY PRIOR TO ORDERING.
WF 1	WATER FOUNTAIN	2"	2"	1/2"	--	1	1	ELKAY NO-LEAD DRINKING FOUNTAIN WITH SOFT SIDES, WALL MOUNT-FULLY EXPOSED WITH WALL PLATE, BARRIER-FREE ACCESS MODEL EDFP217C, OR HAWS 1011, "HI-LO" BARRIER FREE, WALL MOUNT-FULLY EXPOSED WITH WALL PLATE, OR EQUIVALENT.
WF 2	WATER FOUNTAIN	2"	2"	1/2"	--	1	1	ELKAY NO-LEAD DRINKING FOUNTAIN WITH SOFT SIDES, WALL MOUNT-FULLY EXPOSED WITH WALL PLATE, MODEL EDFP210C, OR HAWS 1001, BARRIER FREE, WALL MOUNT-FULLY EXPOSED WITH WALL PLATE, OR EQUIVALENT.

PLUMBING CONTRACTOR SHALL SUBMIT PLUMBING FIXTURE INFORMATION PRIOR TO CONSTRUCTION AND ONCE APPROVED INFORMATION SHALL BE DISTRIBUTED TO ALL SUBCONTRACTORS.

1 PLUMBING FIXTURE SCHEDULE
SCALE: NONE

DATE
BY
SURVEYED
PLOTTED
INKED
DESIGNED
SQUAD



1 PLUMBING FIXTURES
SCALE: 1/4" = 1'-0"

INSTALLATION NOTES: (THIS SHEET ONLY)

2200 WATER CLOSET CARRIERS SHALL BE MOUNTED TO NEW CONCRETE SLAB IN PLUMBING CHASE. EXCAVATE AND POUR CONCRETE AFTER PLUMBING PIPING AND WALL REMOVAL.

PLUMBING LEGEND:

- HW — DOMESTIC HOT WATER
- CW — DOMESTIC COLD WATER
- SAN — WASTE LINE
- VENT LINE
- PLUMBING FIXTURE DESIGNATION / DESIGNATED NUMBER

KANSAS DEPARTMENT OF TRANSPORTATION

PLUMBING FIXTURE LAYOUT & PLUMBING SCHEDULE

P.A.4

FHWA APPROVAL XX-XX-XX		APP'D	XXX
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	74	143
F.A. NO.				

INSTALLATION NOTES: (THIS SHEET ONLY)

2200 CUT NEW OPENING AT EXISTING JOINTS WHEN POSSIBLE. WIDEN AND LOWER OPENING AS NEEDED FOR NEW PLUMBING ROUTING.

2201 WHERE MOUNTING HOLES ARE IN STONE OPENING AREA, USE RIGID METAL VERTICAL STRAPS FOR FOUNTAIN MOUNTING.

2202 ATTACH STRAPS TO BACK OF STONE VENEER AND SECURE WITH COUNTERSUNK BOLTS THROUGH STONE.

2203 FOR UPPER LEVEL FOUNTAIN, REUSE EXISTING TEE AT EXISTING VERTICAL DRAIN/VENT LINE.

2204 INSTALL 18 GAUGE S.S. FINISH PANEL MATCHING SAME FINISH AND COLOR OF THE WATER FOUNTAINS. INSTALL FULLY COVERING STONE OPENING AND ALL INSTALLATION HOLES.

DATE
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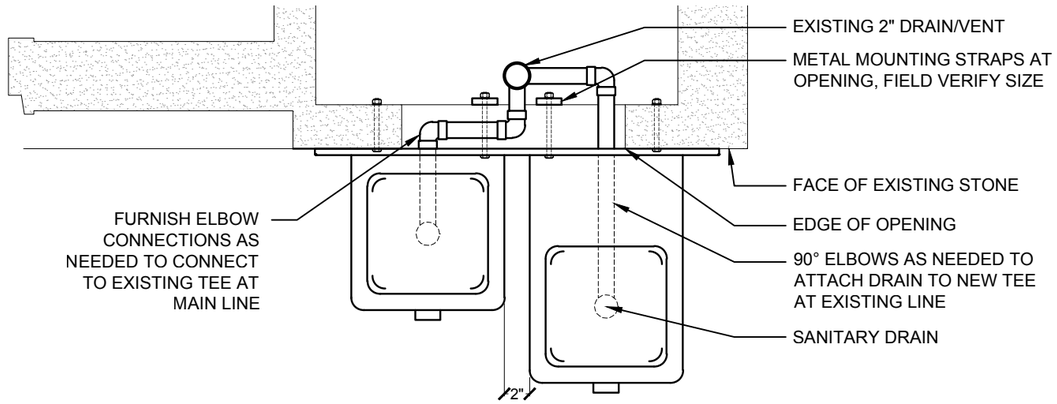
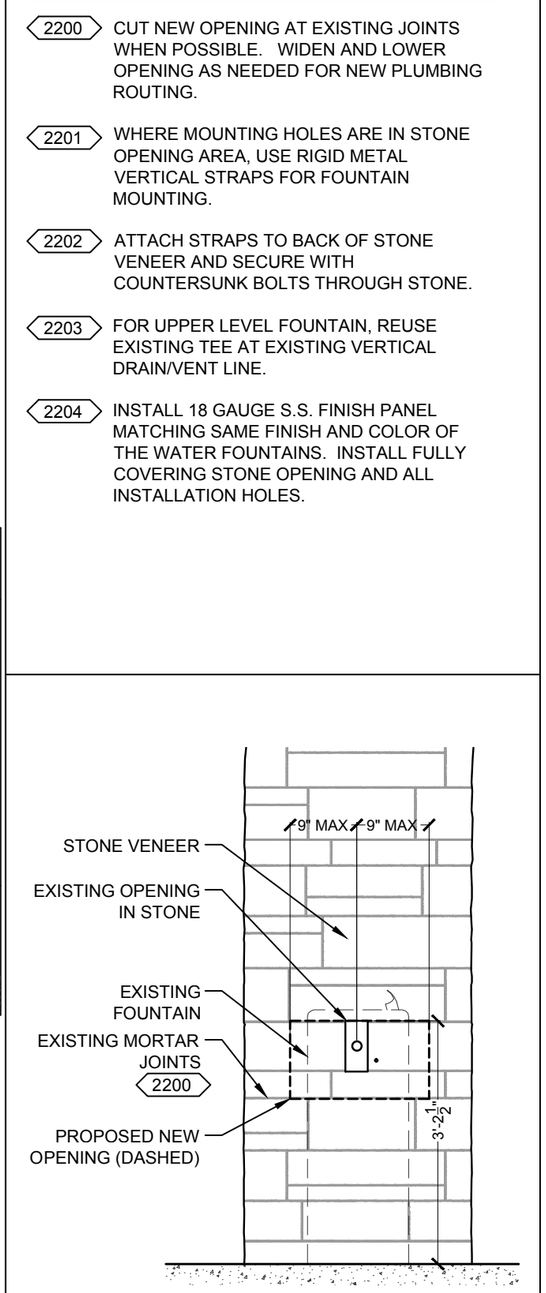
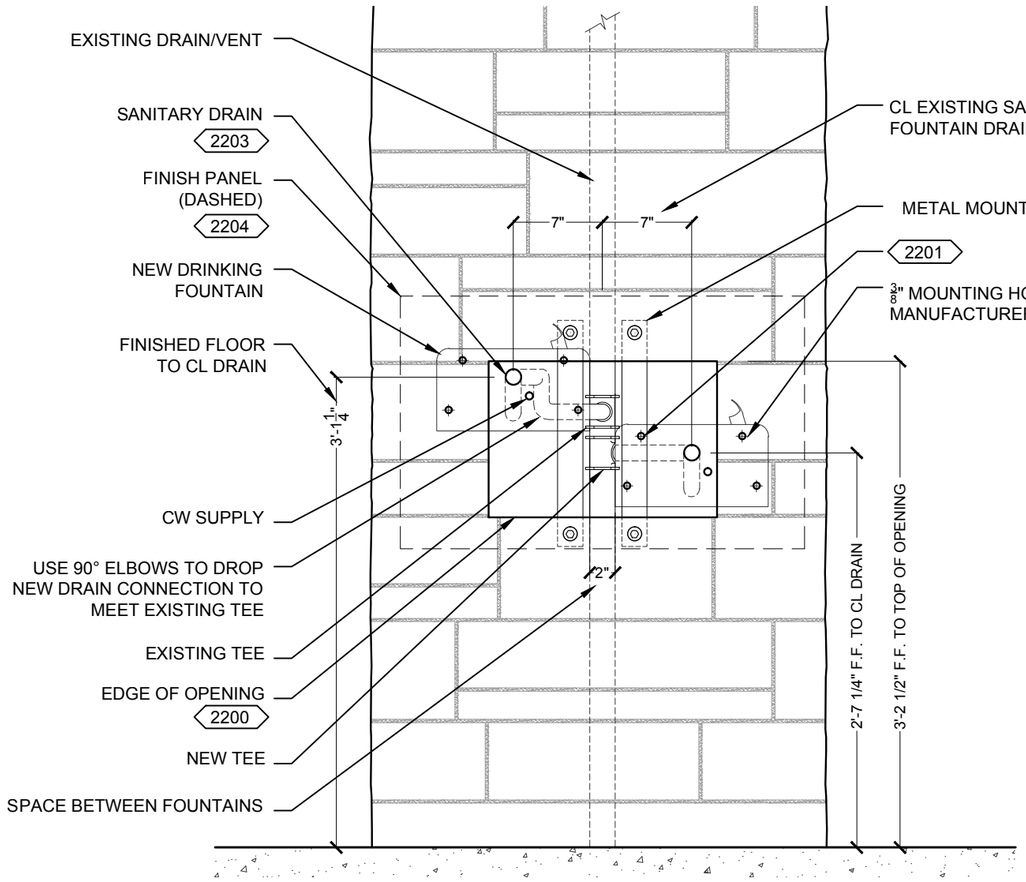
SURVEYED
PLOTTED
INKED
DESIGNED
SQUAD



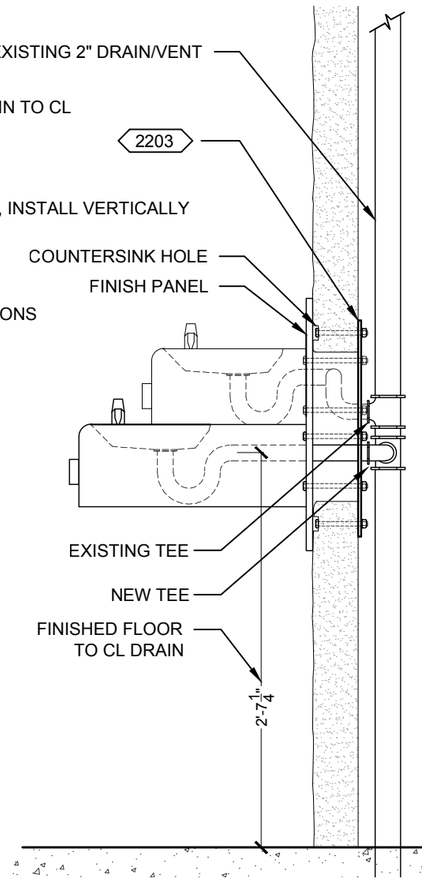
PLAN VIEW



ELEVATION VIEW



ELEVATION VIEW



SECTION

KANSAS DEPARTMENT OF TRANSPORTATION

SECTIONS & DETAILS

P.A.5

FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

1 EXIST. DRINKING FOUNTAIN
SCALE: 1/2" = 1'-0"

2 NEW DRINKING FOUNTAIN DETAILS
SCALE: 1" = 1'-0"

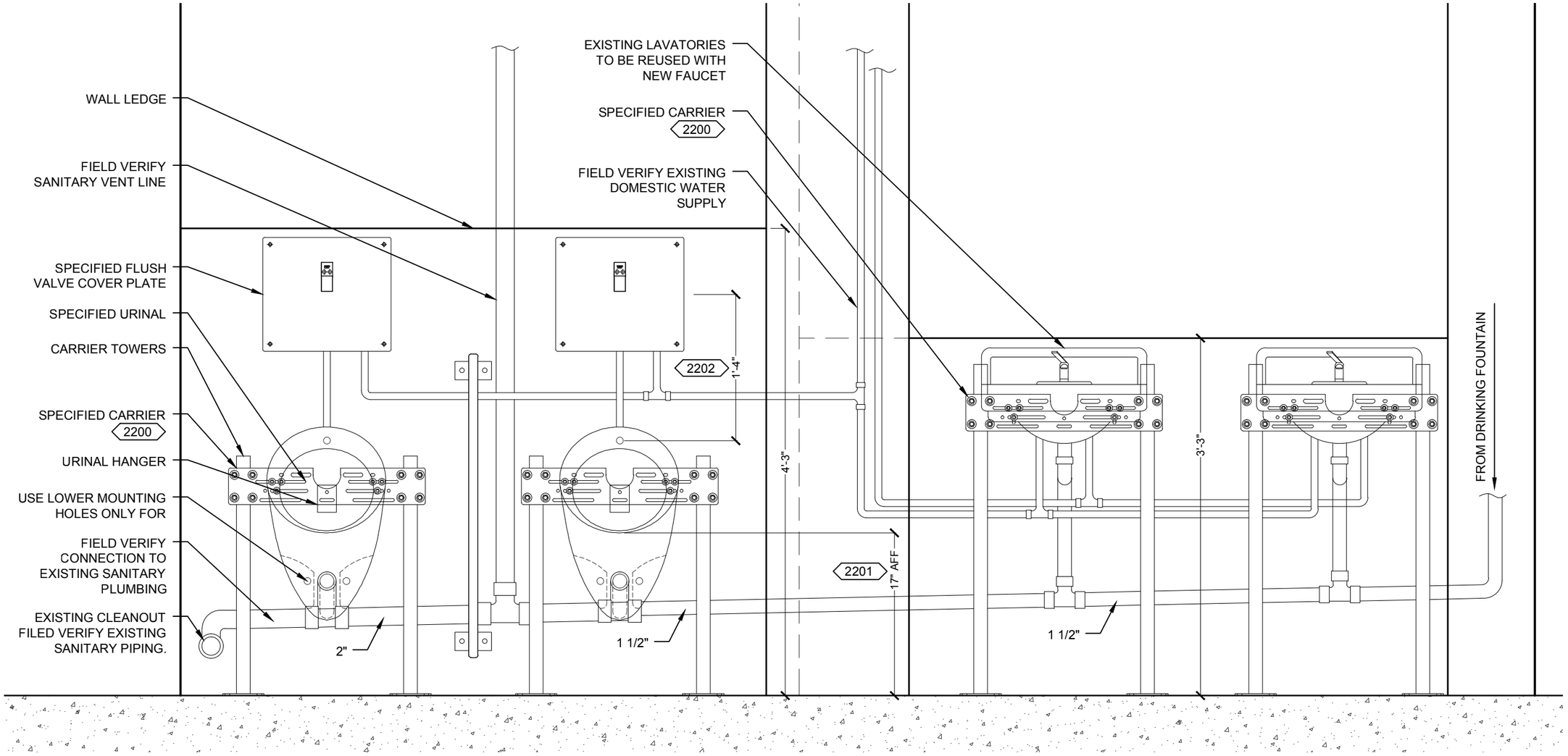
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	75	143
F.A. NO.				

INSTALLATION NOTES: (THIS SHEET ONLY)

2200 HEAVY-DUTY CARRIER INSTALLER PER MANUFACTURER SPECIFICATIONS, ANCHOR TO EXISTING CONCRETE SLAB WITH $\frac{1}{2}$" ANCHORS.

2201 URINAL RIM TO BE 17" ABOVE FINISHED FLOOR PER ACCESSIBILITY REQUIREMENTS SEE MANUFACTURER SPECIFICATIONS FOR INSTALLATION DETAILS.

2202 URINAL BACK SPUD INLET TO CL OF FLUSH VALVE PER INSTALLATION INSTRUCTIONS



DATE
BY
SURVEYED
PLOTTED
INKED
DESIGNED
SQUAD

1 URINAL/LAVATORY WALL ELEVATION

SCALE: 1" = 1'-0"

KANSAS DEPARTMENT OF TRANSPORTATION

PLUMBING FIXTURE ELEVATION DETAIL

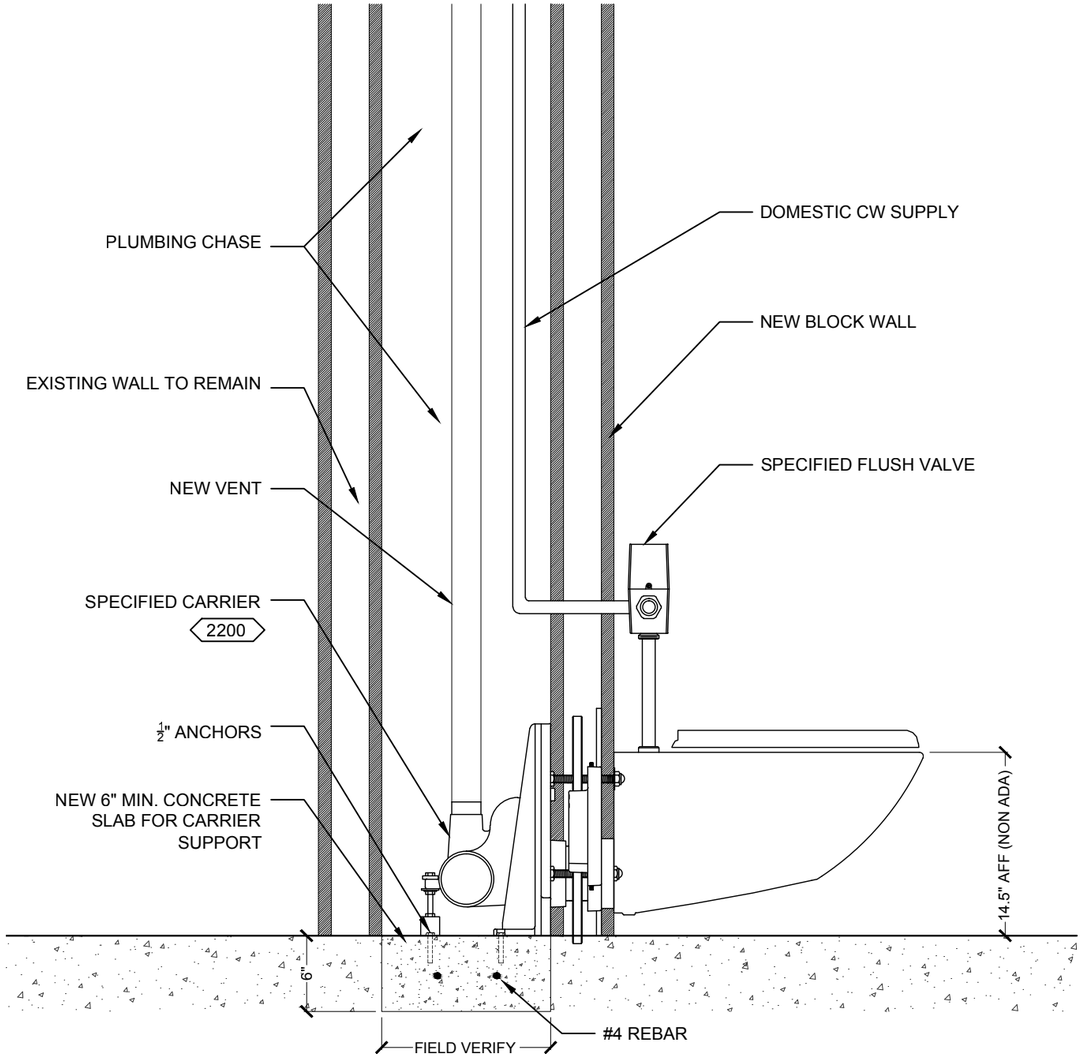
P.A.6

FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

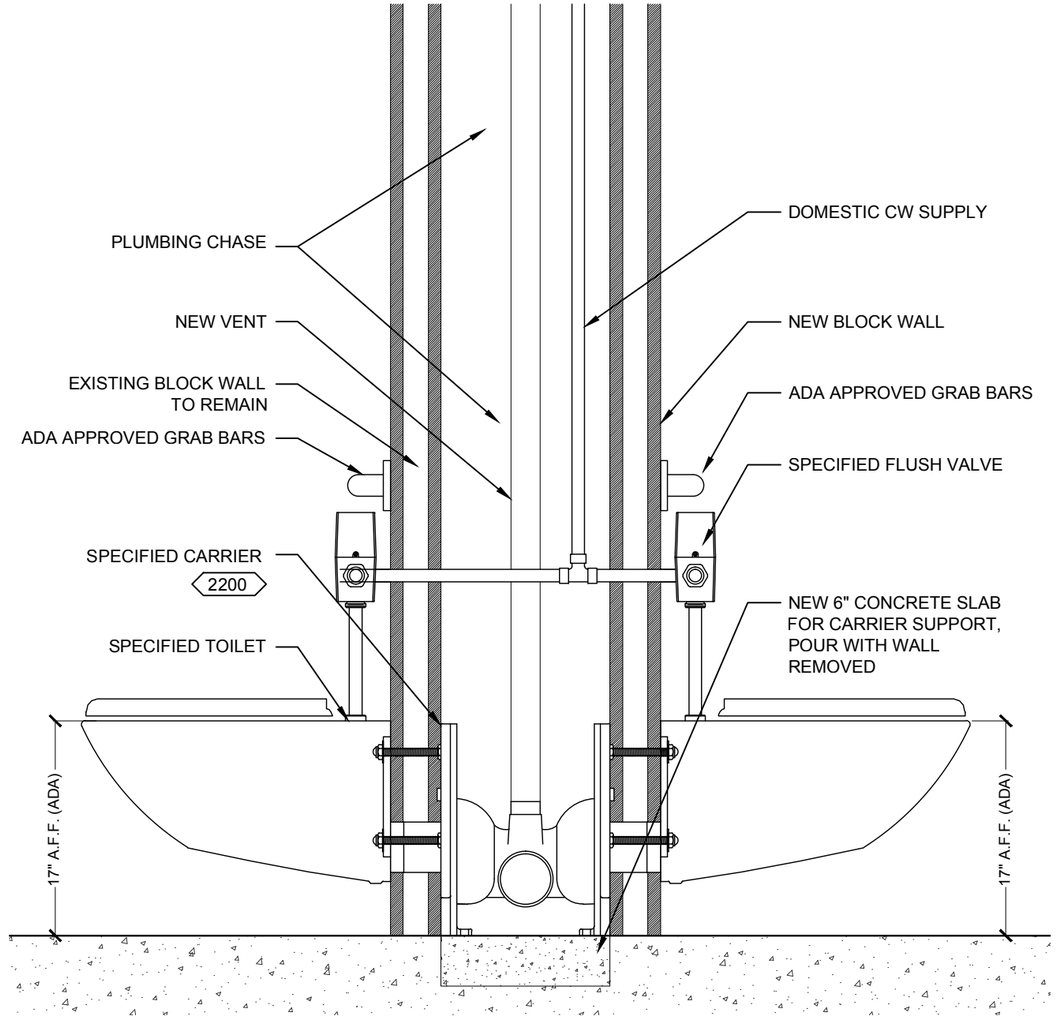
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	76	143
F.A. NO.				

INSTALLATION NOTES: (THIS SHEET ONLY)

2200 HEAVY-DUTY CARRIER INSTALLED PER MANUFACTURER SPECIFICATIONS, ANCHOR TO NEW CONCRETE SLAB WITH $\frac{1}{2}$" ANCHOR BOLTS.



1 SINGLE WATER CLOSET SECTION
SCALE: 1" = 1'-0"



2 BACK-TO-BACK WATER CLOSET SECTION
SCALE: 1" = 1'-0"

KANSAS DEPARTMENT OF TRANSPORTATION

WATER CLOSET SECTION

P.A.7

FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

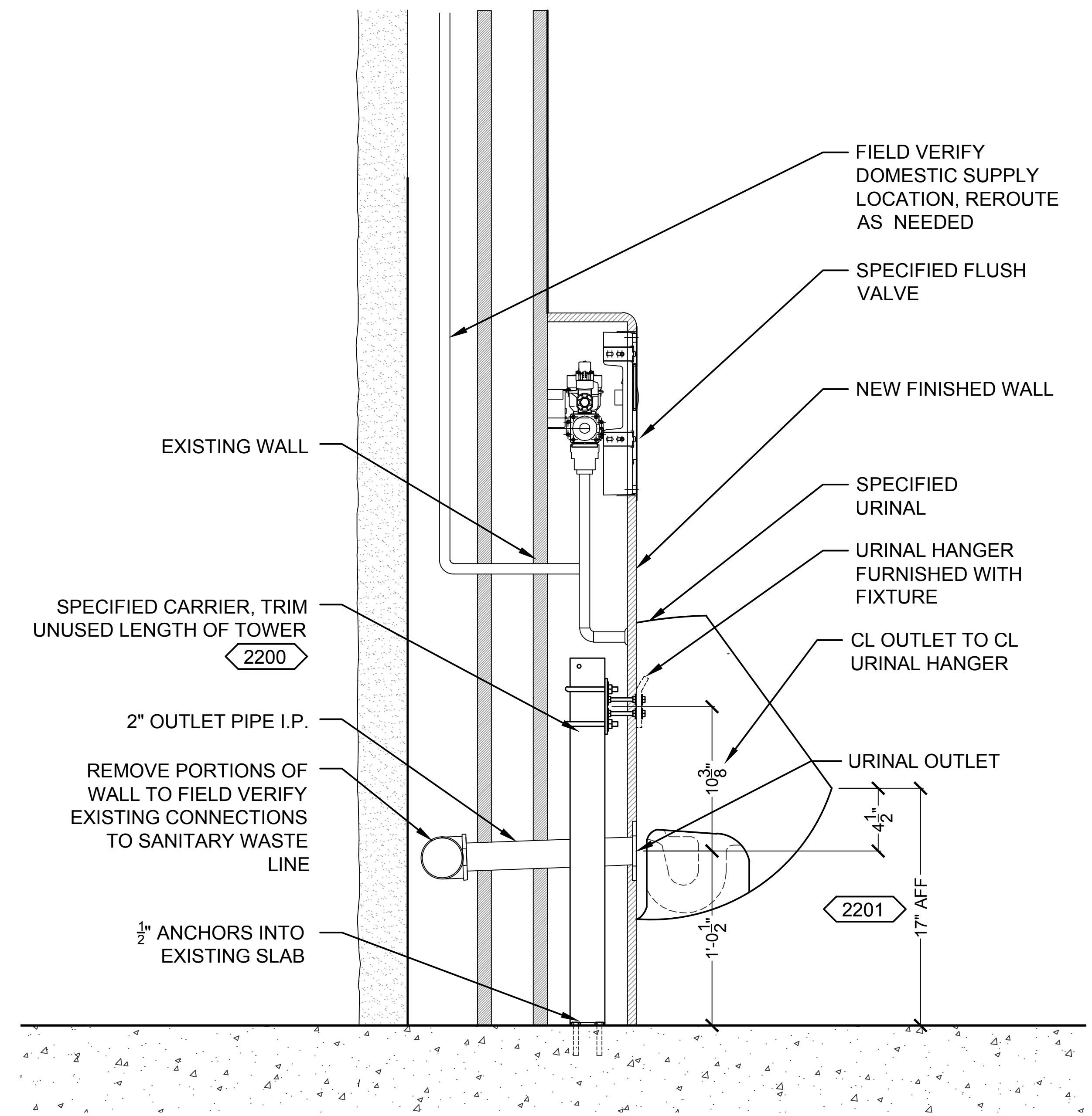
DATE
BY
SURVEYED
PLOTTED
INKED
DESIGNED
SQUAD

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	77	143
F.A. NO.				

INSTALLATION NOTES: (THIS SHEET ONLY)

2200 HEAVY-DUTY CARRIER INSTALLED PER MANUFACTURER SPECIFICATIONS, ANCHOR TO EXISTING CONCRETE SLAB WITH $\frac{1}{2}$" ANCHORS.

2201 URINAL RIM TO BE 17" ABOVE FINISHED FLOOR PER ACCESSIBILITY REQUIREMENTS
SEE MANUFACTURER SPECIFICATIONS FOR INSTALLATION DETAILS.



1 URINAL SECTION

SCALE: 1" = 1'-0"

KANSAS DEPARTMENT OF TRANSPORTATION

URINAL SECTION

P.A.8

FHWA APPROVAL XX-XX-XX		APP'D	XXX
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

DATE	BY	
		SURVEYED
		PLOTTED
		INKED
		DESIGNED
		SQUAD

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	78	143
F.A. NO.				

LIGHTING CONTROL SCHEDULE:

FIXTURE	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	MOUNTING		HEIGHT	REMARKS
				WALL	SURFACE		
Ⓜ	REFER TO SPECIFICATIONS	--	ULTRASONIC MOTION DETECTOR		X	9' - 0"	360 DEGREE COVERAGE. MOUNT ON CEILING SURFACE.

ALL CONTROLS SHALL BE APPROVED BY THE OWNER OR OWNERS REPRESENTATIVE PRIOR TO ORDERING OR INSTALLATION

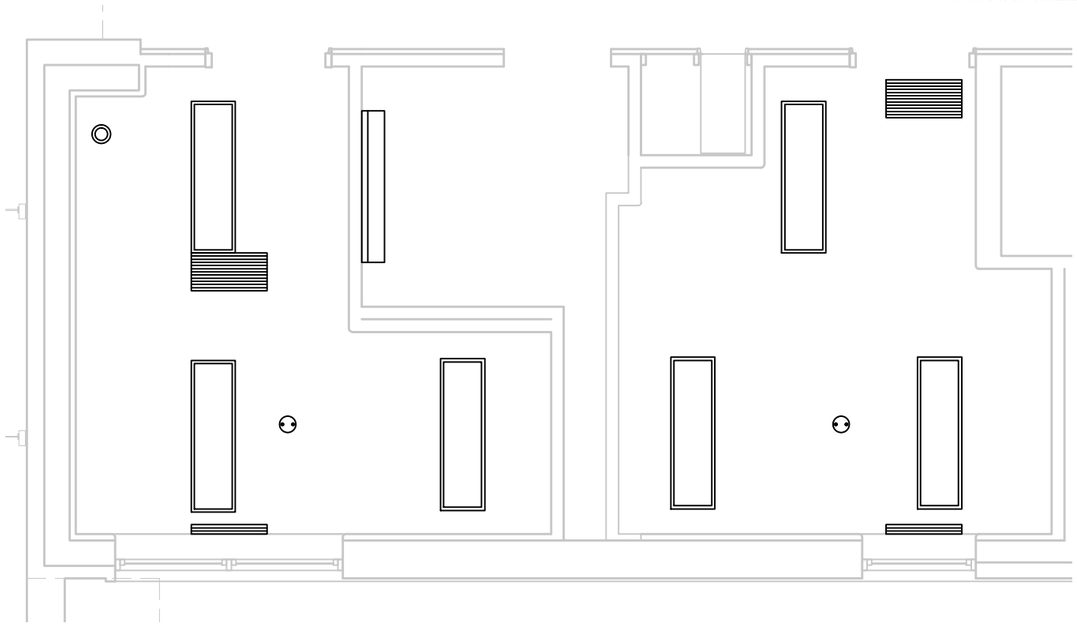
LIGHTING SCHEDULE:

FIXTURE	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	LAMP TYPE	MOUNTING				HEIGHT	REMARKS
					WALL	RECESSED	SURFACE	PENDANT		
A	EXISTING	EXISTING	1' x 4' RECESSED	32W T-8: 2900 LUMENS		X			9' - 0"	RETROFIT EXISTING FIXTURES WITH NEW T8 LAMPS, TOMBSTONES AND ELECTRONIC BALLASTS.
H	EXISTING	EXISTING	LED DOWN LIGHT	GE 10W LED A-19: 800 LUMENS		X			9' - 0"	REPLACE THE EXISTING BULB WITH AN ENERGY EFFICIENT LED LIGHT BULB.
J	REFER TO SPECIFICATIONS	--	48" WALL MOUNT FLUORESCENT	32W T-8: 2900 LUMENS	X				8' - 0"	

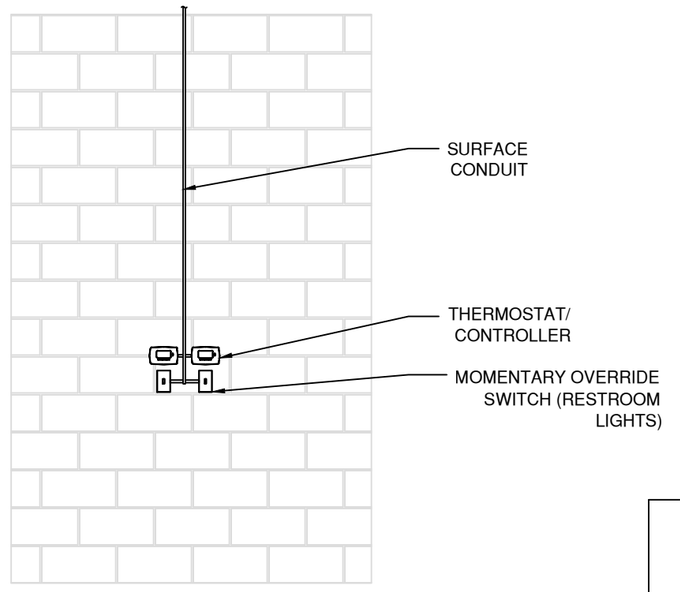
SURVEYED
PLOTTED
INKED
DESIGNED
SQUAD

1 SCHEDULES
SCALE: NONE

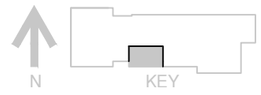
SEE DRAWING E.A.2
FOR INSTALLATION



2 REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0'



3 ELEV. OF TEMP. CONTROLS & SWITCHES
SCALE: 3/8" = 1'-0'

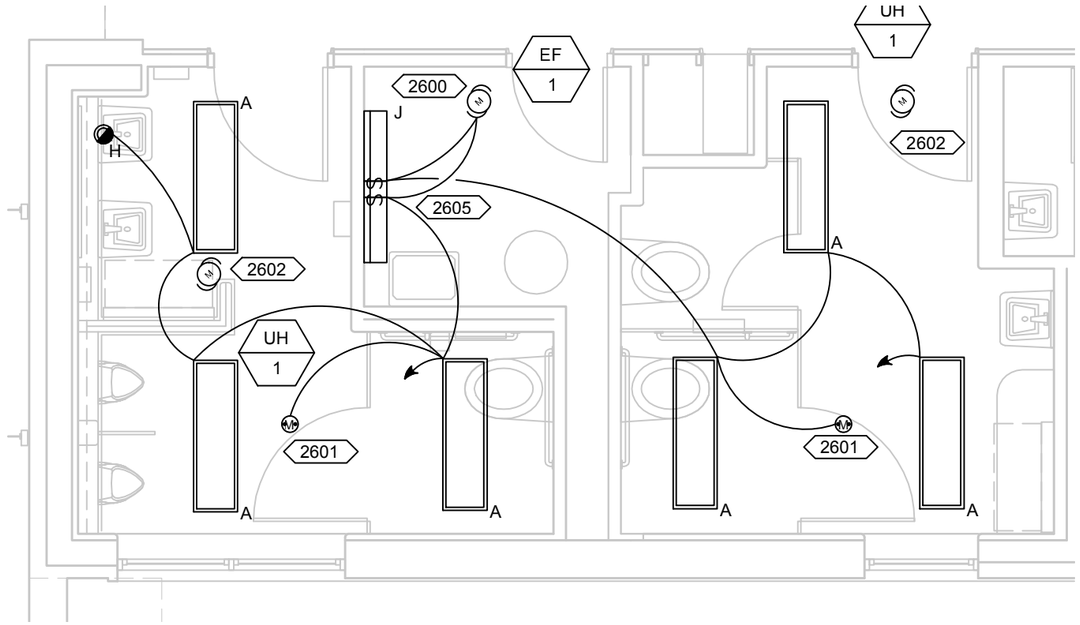


KANSAS DEPARTMENT OF TRANSPORTATION

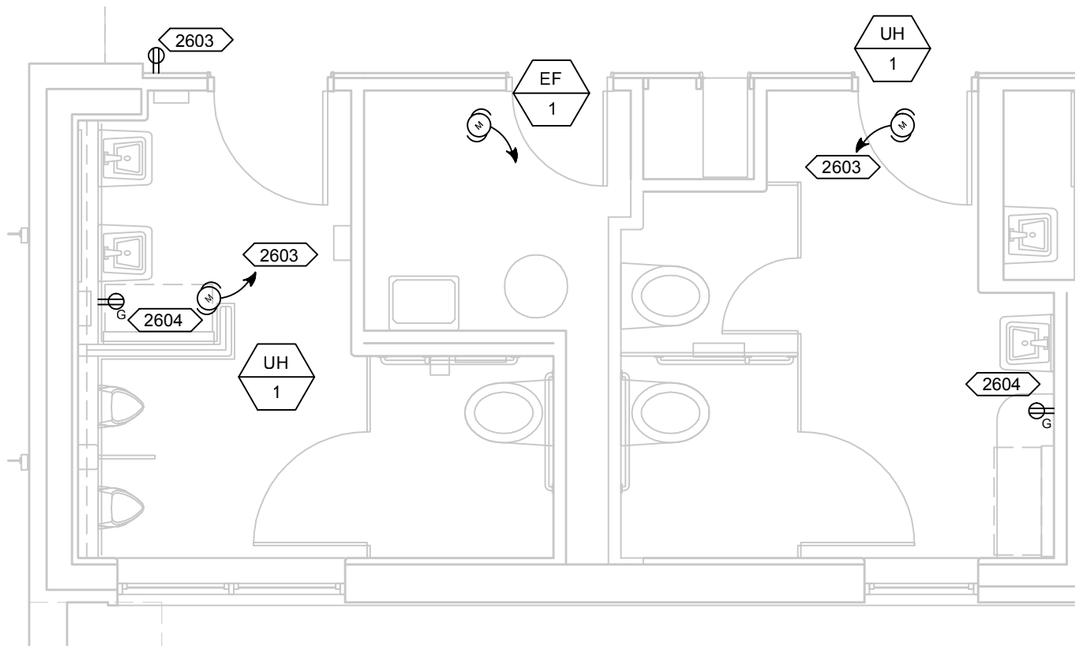
SCHEDULES & REFLECTED CEILING PLAN

E.A.1

FHWA APPROVAL XX-XX-XX		APP'D	XXX
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.



1 LIGHTING LAYOUT
SCALE: 1/4" = 1'-0'



2 POWER LAYOUT
SCALE: 1/4" = 1'-0'

INSTALLATION NOTES: (THIS SHEET ONLY)

2600 SWITCH THE CENTRAL EXHAUST FAN WITH THE LIGHTS. CONNECT EXHAUST FAN TO LIGHTING CIRCUIT.

2601 THE MOTION SENSOR LOCATED IN EACH RESTROOM SHALL CONTROL THE EXHAUST FAN AND THE RESTROOM'S LIGHTS.

2602 CONNECT FAN COILS INTO THEIR EXISTING CIRCUIT.

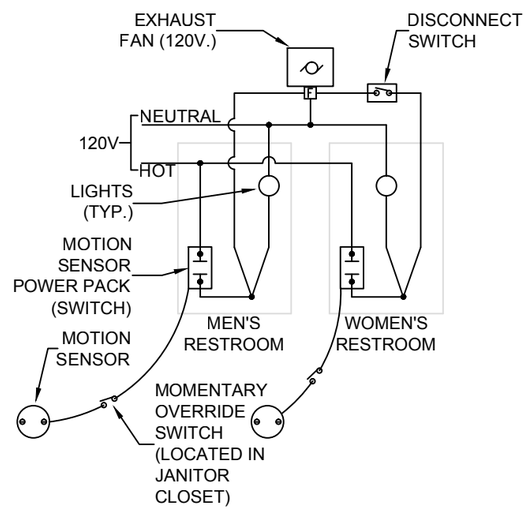
2603 REMOVE EXISTING RECEPTACLE LOCATED NEXT TO THE DRINKING FOUNTAIN. REMOVE ALL ASSOCIATED WIRING AND CONDUIT BACK TO ITS EXISTING JUNCTION BOX.

2604 MOUNT NEW RECEPTACLES AT COUNTER HIEGHT. CONNECT TO EXISTING RECEPTACLE CIRCUIT.

2605 CONSULT WITH MECHANICAL CONTRACTOR ABOUT EXACT PLACEMENT OF EQUIPMENT (SWITCHES AND THERMOSTATS) IN JANITOR CLOSET.

POWER LEGEND:

- STANDARD RECEPTACLE (18" A.F.F.)
- G GFI RECEPTACLE (WITHIN 6' OF A SINK)
- (M) EQUIPMENT MOTOR
- MECH. EQUIPMENT DESIGNATION / DESIGNATED NUMBER



3 EXH. FAN WIRING DIAGRAM
SCALE: NONE

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	79	143
F.A. NO.				

GENERAL NOTES:

1. ALL WORK SHALL CONFORM TO THE LATEST ADOPTED VERSION OF THE NATIONAL ELECTRICAL CODE (NEC).

2. ALL WIRING SHALL BE IN CONDUIT.

3. CONDUIT SHALL BE EMT WITH COMPRESSION TYPE OR SCREW FITTINGS.

4. ALL FLEXIBLE METALLIC AND PVC CONDUIT WHERE ALLOWED BY LOCAL CODE IS TO BE PROVIDED WITH SEPARATE GROUND WIRE.

5. ALL POWER WIRES AND CABLES SHALL BE COPPER #12 AWG, UNLESS NOTED OTHERWISE OR REQUIRED BY THE MANUFACTURER OF THE CONNECTED DEVICE. WIRE SHALL BE CODE TYPE THWN/THHN, UNLESS OTHERWISE STATED.

6. ALL CIRCUITS SHALL HAVE SEPARATE NEUTRALS, THROUGHOUT THE ENTIRE CIRCUIT.

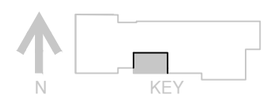
7. ALL NEW SWITCHES SHALL BE RATED AT 20 AMPS.

8. ALL OUTLETS SHALL BE RATED 15 AMPS. GROUND-FAULT CIRCUIT INTERRUPTER TYPE OUTLETS SHALL BE INSTALLED IN THOSE LOCATIONS AS REQUIRED BY THE NEC OR AS DESIGNATED ON THE DRAWINGS.

9. PROVIDE ALL OUTLET, LIGHTING FIXTURES, AND J-BOXES THROUGHOUT THE AREA IN ACCESSIBLE LOCATIONS. BOXES SHALL BE OF GALVANIZED KNOCK OUT TYPE WITH SCREW COVERS.

10. CONTRACTOR IS TO FURNISH AND INSTALL CONDUIT FOR LOW VOLTAGE WIRING. INSTALL AND CONNECT LINE VOLTAGE WIRING. LOW VOLTAGE-WIRING CONNECTIONS ON HVAC SYSTEM AND CONTROL SYSTEMS BY CONTRACTOR.

11. CONTRACTOR SHALL VERIFY ALL EQUIPMENT NAME PLATES AND INSTALLATION REQUIREMENTS PRIOR TO DOING WORK. EQUIPMENT IS TO BE INSTALLED PER MANUFACTURERS SPECIFICATIONS.



KANSAS DEPARTMENT OF TRANSPORTATION

LIGHTING & POWER LAYOUTS

E.A.2

FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

SURVEYED
PLOTTED
INKED
DESIGNED
SQUAD

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	82	143
F.A. NO.				

ELECTRICAL PANEL: PANEL A (MDP)

(10,000 A.I.C.)

VOLTAGE: 208/120 V | MAIN: 400 A | FEED: --"C, -- - #-- Cu, #-- GR
PHASE: 3Ø | WIRE: 4 | LOCATION: -- | MOUNTING: SURFACE

DESCRIPTION	REC	LTG	VA A	VA B	VA C	BRKR AMP	BRKR P	CKT NO.	BUS CONN	CKT NO.	BRKR P	BRKR AMP	VA A	VA B	VA C	REC	LTG	DESCRIPTION
FQ DEPOT	-	-				40	1	1		2	1	20	0			-	-	PANEL D BOILER ROOM
	-	-		0			1	3		4	1	20		0		-	-	
AC WAITING ROOM	-	-			0	20	1	5		6	1	20			0	-	-	
	-	-	0			20	1	7		8	1	20	0			-	-	AC BAGGAGE
	-	-		0		20	1	9		10	1	20		0		-	-	
CIRCULATING PUMP	-	-			0	20	1	11		12	1	20			0	-	-	
	-	-	0			20	1	13		14	1	20	0			-	-	SPARE
	-	-		0		20	1	15		16	1	20		0		-	-	
	-	-			0	20	1	17		18	1	20			0	-	-	
	-	-	0			20	1	19		20	1	20	0			-	-	
PANEL B	-	-		0		20	1	21		22	1	20		0		-	-	PANEL C
	-	-			0	20	1	23		24	1	20			0	-	-	
	-	-	0			20	1	25		26	1	20	0			-	-	
	-	-		0		20	1	27		28	1	20		0		-	-	
SPARE	-	-			0	20	1	29		30	1	20			0	-	-	SPARE
SPARE	-	-	0			20	1	31		32	1	20	0			-	-	SPARE
SPARE	-	-		0		20	1	33		34	1	20		0		-	-	SPARE
SPARE	-	-			0	20	1	35		36	1	20			0	-	-	SPARE
SPARE	-	-	0			20	1	37		38	1	20	0			-	-	SPARE
SPARE	-	-		0		20	1	39		40	1	20		0		-	-	SPARE
SPARE	-	-			0	20	1	41		42	1	20			0	-	-	SPARE
			0	0	0								0	0	0			

WATTS: BUS A: 0
BUS B: 0
BUS C: 0

TOTAL WATTAGE 0

ELECTRICAL PANEL: B

(22,000 A.I.C.)

VOLTAGE: 120/240 V | MAIN:200 A | FEED: EXISTING
Phase: 1Ø | LOCATION: TICKET OFFICE | MOUNTING: SURFACE

DESCRIPTION	REC	LTG	VA A	VA B	BRKR AMP	BRKR P	CKT NO.	BUS CONN	CKT NO.	BRKR P	BRKR AMP	VA A	VA B	REC	LTG	DESCRIPTION
NORTH CANOPY	-	-	0		15	1	1		2	1	15	0		-	-	SW CANOPY
NORTH CANOPY	-	-		0	15	1	3		4	1	15		0	-	-	LOBBY VESTIBULE
SW CANOPY	-	-	-		15	1	5		6	1	15	-		-	-	WAITING ROOM LIGHTS
BLANK	-	-		-	15	1	7		8	1	20		-	-	-	COUNTER
BLANK	-	-	-		15	1	9		10	1	20	-		-	-	COUNTER
WAITING ROOM	-	-		-	15	1	11		12	1	15		-	-	-	OFFICE
RESTROOM	-	-	-		15	1	13		14	1	15	-		-	-	NIGHT
HALL LIGHTS	-	-		-	15	1	15		16	1	15		-	-	-	OUTLETS
CLOCK/OUTLETS	-	-	-		20	1	17		18	1	20	-		-	-	BLANK
OUTLETS/TOILETS	-	-		-	20	1	19		20	1	20		-	-	-	SF SIGN
STATION SIGN	-	-	-		20	1	21		22	1	20	-		-	-	SIGNAL LINE
SPARE	-	-		-	15	1	23		24	1	15		-	-	-	JANITOR LIGHTS
E WAITING ROOM DROP	-	-	-		20	1	25		26	1	20	-		-	-	EAST POLE
W WAITING ROOM DROP	-	-		-	20	1	27		28	1	15		-	-	-	WEST POLE
E WIREMOLD	-	-	-		20	1	29		30	2	15	-		-	-	SPARE
			0	0								0	0			

WATTS: BUS A: 0
BUS B: 0

FIELD VERIFY ALL EXISTING CIRCUITS AND BREAKER SIZES

TOTAL WATTAGE 0

GENERAL NOTES:

1. ALL WORK SHALL CONFORM TO THE LATEST ADOPTED VERSION OF THE NATIONAL ELECTRICAL CODE (NEC).

2. ALL WIRING SHALL BE IN CONDUIT.

3. CONDUIT SHALL BE EMT WITH COMPRESSION TYPE OR SCREW FITTINGS.

4. ALL FLEXIBLE METALLIC AND PVC CONDUIT WHERE ALLOWED BY LOCAL CODE IS TO BE PROVIDED WITH SEPARATE GROUND WIRE.

5. ALL POWER WIRES AND CABLES SHALL BE COPPER #12 AWG, UNLESS NOTED OTHERWISE OR REQUIRED BY THE MANUFACTURER OF THE CONNECTED DEVICE. WIRE SHALL BE CODE TYPE THWN/THHN, UNLESS OTHERWISE STATED.

6. ALL CIRCUITS SHALL HAVE SEPARATE NEUTRALS, THROUGHOUT THE ENTIRE CIRCUIT.

7. ALL NEW SWITCHES SHALL BE RATED AT 20 AMPS.

8. ALL OUTLETS SHALL BE RATED 15 AMPS. GROUND-FAULT CIRCUIT INTERRUPTER TYPE OUTLETS SHALL BE INSTALLED IN THOSE LOCATIONS AS REQUIRED BY THE NEC OR AS DESIGNATED ON THE DRAWINGS.

9. PROVIDE ALL OUTLET, LIGHTING FIXTURES, AND J-BOXES THROUGHOUT THE AREA IN ACCESSIBLE LOCATIONS. BOXES SHALL BE OF GALVANIZED KNOCK OUT TYPE WITH SCREW COVERS.

10. REFER TO MECHANICAL DRAWINGS FOR THE LOCATION OF EXHAUST FANS AND HVAC EQUIPMENT. CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF ALL CONDUITS, J-BOXES, WIRING, DISCONNECT SWITCHES, AND THERMOSTAT J-BOXES.

11. CONTRACTOR IS TO FURNISH AND INSTALL CONDUIT FOR LIFE SAFETY AND LOW VOLTAGE WIRING. INSTALL AND CONNECT LINE VOLTAGE WIRING. LOW VOLTAGE-WIRING CONNECTIONS ON HVAC SYSTEM BY CONTRACTOR.

12. USE ELECTRONIC BALLAST ON ALL FLUORESCENT LIGHTING. WIRE CONNECTION FROM LIGHT FIXTURES MAY BE ENCASED IN FLEXIBLE CONDUIT 6'-0" MAXIMUM.

13. ALL TYPE BATTERY EMERGENCY LIGHT FIXTURES AND BATTERY EXIT SIGNS SHALL BE CIRCUITED VIA A SEPARATE SET OF CONDUIT AND JUNCTION BOXES. DESIGNATED ONLY FOR (BATTERY EMERGENCY) LIGHT FIXTURES AND / OR BATTERY EXIT SIGNS.

14. CONTRACTOR SHALL VERIFY ALL EQUIPMENT NAME PLATES AND INSTALLATION REQUIREMENTS PRIOR TO DOING WORK. EQUIPMENT IS TO BE INSTALLED PER MANUFACTURERS SPECIFICATIONS.

ELECTRICAL PANEL: C

(22,000 A.I.C.)

VOLTAGE: 120/240 V | MAIN:200 A | FEED: EXISTING
Phase: 1Ø | LOCATION: FREIGHT OFFICE | MOUNTING: SURFACE

DESCRIPTION	REC	LTG	VA A	VA B	BRKR AMP	BRKR P	CKT NO.	BUS CONN	CKT NO.	BRKR P	BRKR AMP	VA A	VA B	REC	LTG	DESCRIPTION
EXISTING	-	-	-		-	1	1		2	1	-	-		-	-	EXISTING
EXISTING	-	-		-	-	1	3		4	1	-		-	-	-	EXISTING
EXISTING	-	-	-		-	-	5		6	1	20	1380		-	-	**AUTOMATIC DOORS**
EXISTING	-	-		-	-	-	7		8	1	20		1380	-	-	**AUTOMATIC DOORS**
EXISTING	-	-	-		-	-	9		10	-	-	-		-	-	EXTERIOR SOUTH SIDE
EXISTING	-	-		-	-	-	11		12	-	-		-	-	-	EXTERIOR EAST SIDE
ROOF SERVICE RECEP	1	-	180		20	1	13		14	-	-	-		-	-	EXISTING
EXISTING	-	-		-	-	-	15		16	-	-		-	-	-	EXISTING
EXISTING	-	-	-		-	-	17		18	-	-	-		-	-	EXISTING
EXISTING	-	-		-	-	-	19		20	-	-		-	-	-	EXISTING
ICE MACHINE	-	-	-		-	-	21		22	-	-	-		-	-	EXISTING
EXISTING	-	-		-	-	-	23		24	-	-		-	-	-	ICEBOX
SPARE	-	-	-		-	-	25		26	-	-	-		-	-	SPARE
			180	0								1380	1380			

WATTS: BUS A: 1560
BUS B: 1380

BOLD ITEMS ARE NEW TO PANELBOARD
FIELD VERIFY ALL EXISTING CIRCUITS AND BREAKER SIZES

TOTAL WATTAGE 2940

ELECTRICAL PANEL: D

(22,000 A.I.C.)

VOLTAGE: 120/240 V | MAIN:100 A | FEED: SEE CONDUIT SCHEDULE E.4.0
Phase: 1Ø | LOCATION: BOILER ROOM | MOUNTING: SURFACE

DESCRIPTION	REC	LTG	VA A	VA B	BRKR AMP	BRKR P	CKT NO.	BUS CONN	CKT NO.	BRKR P	BRKR AMP	VA A	VA B	REC	LTG	DESCRIPTION
BOILER	-	-	1800		20	1	1		2	1	20	0		-	-	SPARE
PUMP 1	-	-		700	20	1	3		4	1	20		0	-	-	SPARE
PUMP 2	-	-	700		20	1	5		6	1	20	0		-	-	SPARE
PUMP 3	-	-		120	20	1	7		8	1	20		0	-	-	SPARE
PUMP 4	-	-	120		20	1	9		10	-	-	-		-	-	BLANK
PUMP 5	-	-		120	20	1	11		12	-	-		-	-	-	BLANK
BOILER RECEP	1	-	180		20	1	13		14	-	-	-		-	-	BLANK
BLANK	-	-		-	-	-	15		16	-	-		-	-	-	BLANK
BLANK	-	-	-		-	-	17		18	-	-	-		-	-	BLANK
BLANK	-	-		-	-	-	19		20	-	-		-	-	-	BLANK
BLANK	-	-	-		-	-	21		22	-	-	-		-	-	BLANK
BLANK	-	-		-	-	-	23		24	-	-		-	-	-	BLANK
			2800	940								0	0			

WATTS: BUS A: 2800
BUS B: 940

FIELD VERIFY ALL EXISTING CIRCUITS AND BREAKER SIZES
BOLD ITEMS ARE NEW TO PANELBOARD

TOTAL WATTAGE 3740

KANSAS DEPARTMENT OF TRANSPORTATION

ELECTRICAL PANELBOARD SCHEDULES

E.3.0

FHWA APPROVAL XX-XX-XX		APP'D	XXX
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

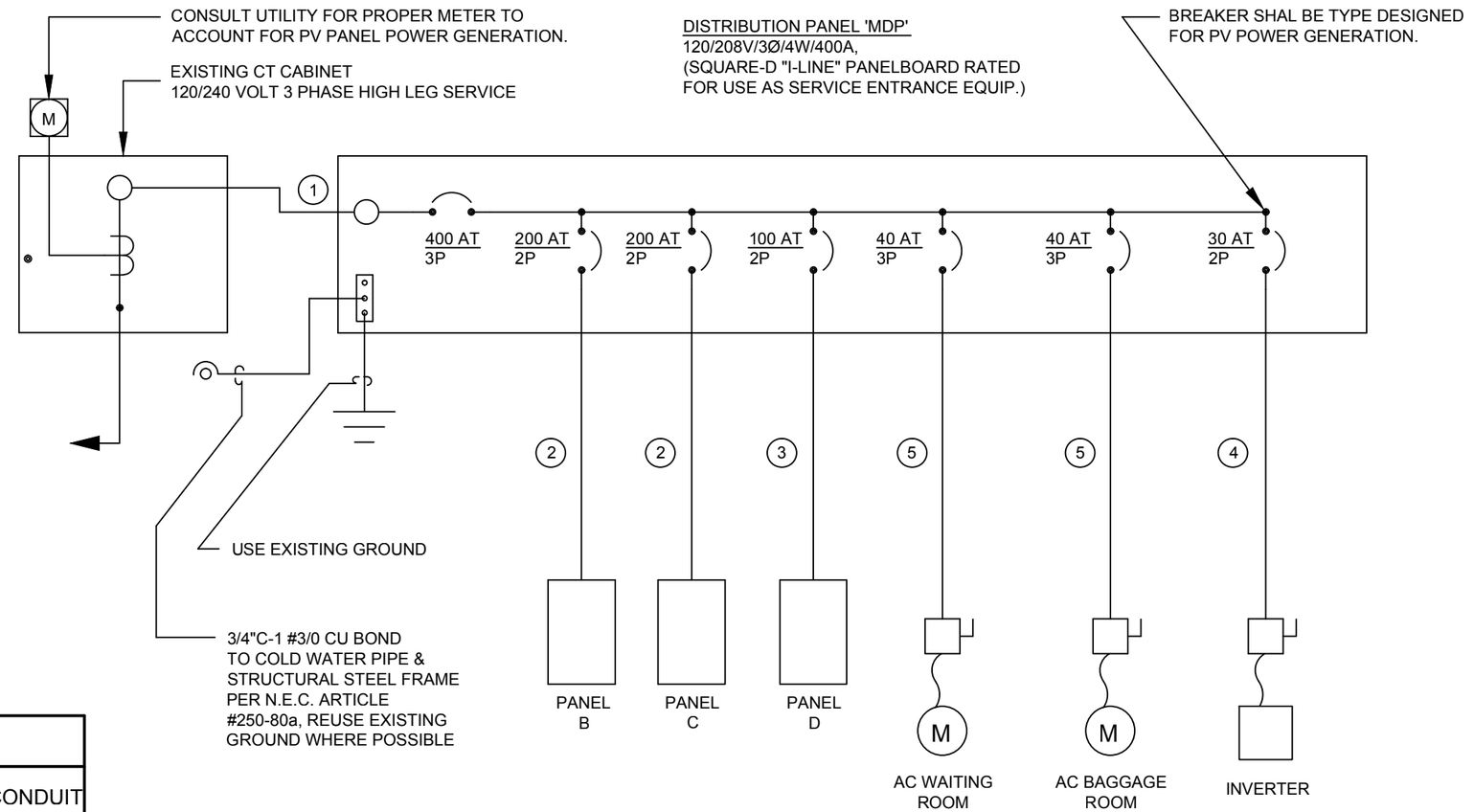
1 PANELBOARD SCHEDULES
SCALE: NTS

DATE | BY | SURVEYED | PLOTTED | INKED | DESIGNED | SQUAD

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	83	143
F.A. NO.				

SHORT CIRCUIT PROTECTION NOTE:
SYSTEM SHALL BE U.L. LISTED/ TESTED FOR SERIES RATING BETWEEN CKT. BREAKERS AT THE DISTRIBUTION PANEL & ALL THE DOWNSTREAM 10k A.I.C. RATED PANELS & CIRCUIT BREAKERS TO WITHSTAND A MIN. OF 22,000 AMPS FAULT CURRENT LEVEL.

FIELD VERIFY CIRCUITS IN OLD PANEL. MOVE ANY CIRCUITS NOT NOTED HERE TO NEW MDP.



CONDUIT SCHEDULE:

IDENTIFICATION NUMBER	CONDUIT	CONDUCTORS/CONDUIT
①	2-2 1/2"	3 - 250KCMIL CU 1 - 250KCMIL CU (NEUTRAL)
②	2"	2 - #3/0 CU 1 - #3/0 CU (NEUTRAL) 1 - #6 CU (GROUND)
③	1 1/4"	2 - #1 CU 1 - #1 CU (NEUTRAL) 1 - #8 CU (GROUND)
④	1/2"	2 - #10 CU 1 - #10 CU (NEUTRAL) 1 - #10 CU (GROUND)
⑤	1"	3 - #6 CU 1 - #10 CU (NEUTRAL) 1 - #10 CU (GROUND)

1 ELECTRICAL RISER
SCALE: NTS

KANSAS DEPARTMENT OF TRANSPORTATION

ELECTRICAL RISER & CONDUIT SCHEDULE

E.4.0

FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

DATE
BY
SURVEYED
PLOTTED
INKED
DESIGNED
SQUAD

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	84	143
F.A. NO.				

LIGHTING SCHEDULE:

FIXTURE	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	LAMP TYPE	MOUNTING				HEIGHT	REMARKS
					WALL	RECESSED	SURFACE	PENDANT		
A	EXISTING	EXISTING	1' x 4' RECESSED	32W T-8: 2900 LUMENS		X			9' - 0"	RETROFIT EXISTING FIXTURES WITH NEW T8 LAMPS, TOMBSTONES AND ELECTRONIC BALLASTS.
B	EXISTING	EXISTING	CAN LIGHT	23 W COMPACT FLUORESCENT		X			9' - 0"	REPLACE THE EXISTING BULB WITH AN ENERGY EFFICIENT COMPACT FLUORESCENT LIGHT BULB.
C	EXISTING	EXISTING	1' X 1' RECESSED	23 W COMPACT FLUORESCENT		X			9' - 0"	REPLACE THE EXISTING BULB WITH AN ENERGY EFFICIENT FLUORESCENT LIGHT BULB.
D	EXISTING	EXISTING	1' X 1' RECESSED EXTERIOR	23 W T-3 CFL: 1700 LUMENS		X			9' - 0"	REPLACE THE EXISTING BULB WITH AN ENERGY EFFICIENT FLUORESCENT LIGHT BULB.
E	EXISTING	EXISTING	PENDANT FIXTURE	40 W COMPACT FLUORESCENT				X	8' - 0"	REPLACE THE EXISTING BULB WITH AN ENERGY EFFICIENT FLUORESCENT LIGHT BULB.
F	HOLOPHANE	30803WS	WALL LIGHT 9.5 " WIDE X 10" DEEP X 10" HIGH	200 W EQUIVALENT LED	X				8' - 0"	~~REPLACE WITH LIKE UNIT WITH LIGHT CUT OFF.~~
G	REFER TO SPECIFICATIONS	EXISTING	WALL MOUNT	200 W HOLOPHANE	X				8' - 0"	~~REPLACE SIX OF THE SEVEN EXISTING FIXTURES WITH THE HOLOPHANE 420 FIXTURE. REPAIR ONE.~~

CONTRACTOR SHALL PROVIDE ALTERNATES TO EACH FIXTURE REFURBISHED USING LED TYPE LAMPS.

1 LIGHTING SCHEDULE
SCALE: NTS

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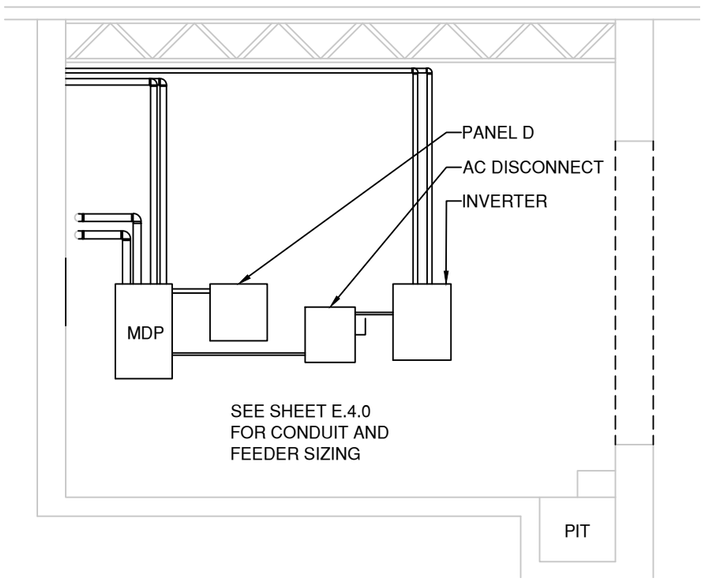
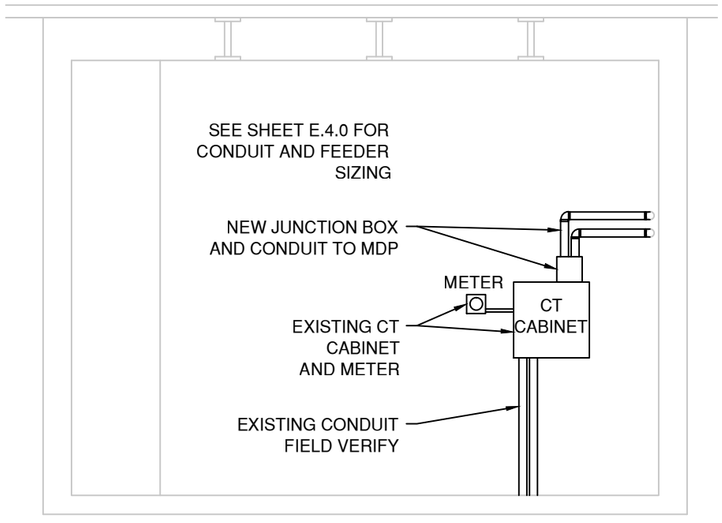


2 BOILER ROOM WEST SECTION
SCALE: 1/4" = 1' - 0"



3 BOILER ROOM SOUTH SECTION
SCALE: 1/4" = 1' - 0"

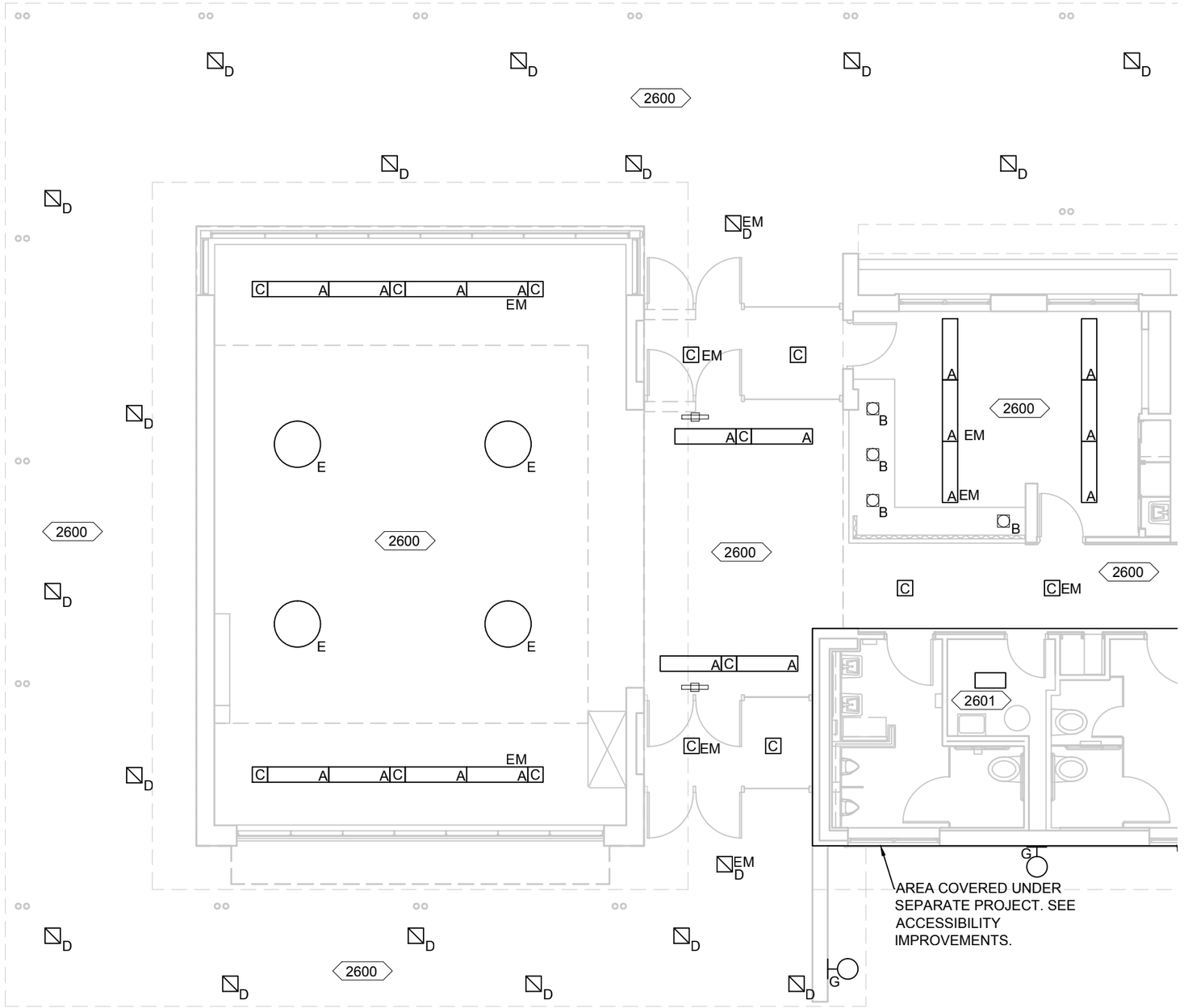
KANSAS DEPARTMENT OF TRANSPORTATION

LIGHTING SCHEDULE &
BOILER ROOM SECTIONS

E.5.0

FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	85	143
F.A. NO.				



INSTALLATION NOTES:

2600 RETROFIT EXISTING LIGHT FIXTURES WITH NEW T8 FLUORESCENT OR EQUIVALENT LUMEN COMPACT FLUORESCENT LIGHT BULBS.

2601 PROVIDE CENTRAL BACKUP BATTERY PACK FOR LIGHT FIXTURES DESIGNATED AS EM (EMEREGNCY EGRESS) LIGHT FIXTURES. SEE LIGTING LAYOUT. BATTERY SHALL ALOS LIGHT THE EXIT SIGNS. LOCATED BATTERY PACK IN JANITORS CLOSET.

LIGHTING LEGEND:

$	STANDARD SWITCH (48" A.F.F.)
$3	3 - WAY SWITCH (48" A.F.F.)
$P.L.	PILOT LIGHT SWITCH (48" A.F.F.)
$M	SYNERGY LIRW NIGHT OCCUPANCY SENSOR
/#	2' X 4' FLUORESCENT FIXTURE FIXTURE TYPE
#|	RECESSED CAN FIXTURE FIXTURE TYPE
	EXIT SIGN CONNECTED TO EM CIRCUIT
	ELECTRICAL PANEL

DATE
BY
SURVEYED
PLOTTED
INKED
DESIGNED
SQUAD

1 LIGHTING LAYOUT WEST
SCALE: 1/8" = 1'-0'

KANSAS DEPARTMENT OF TRANSPORTATION

LIGHTING LAYOUT WEST

E.6.0

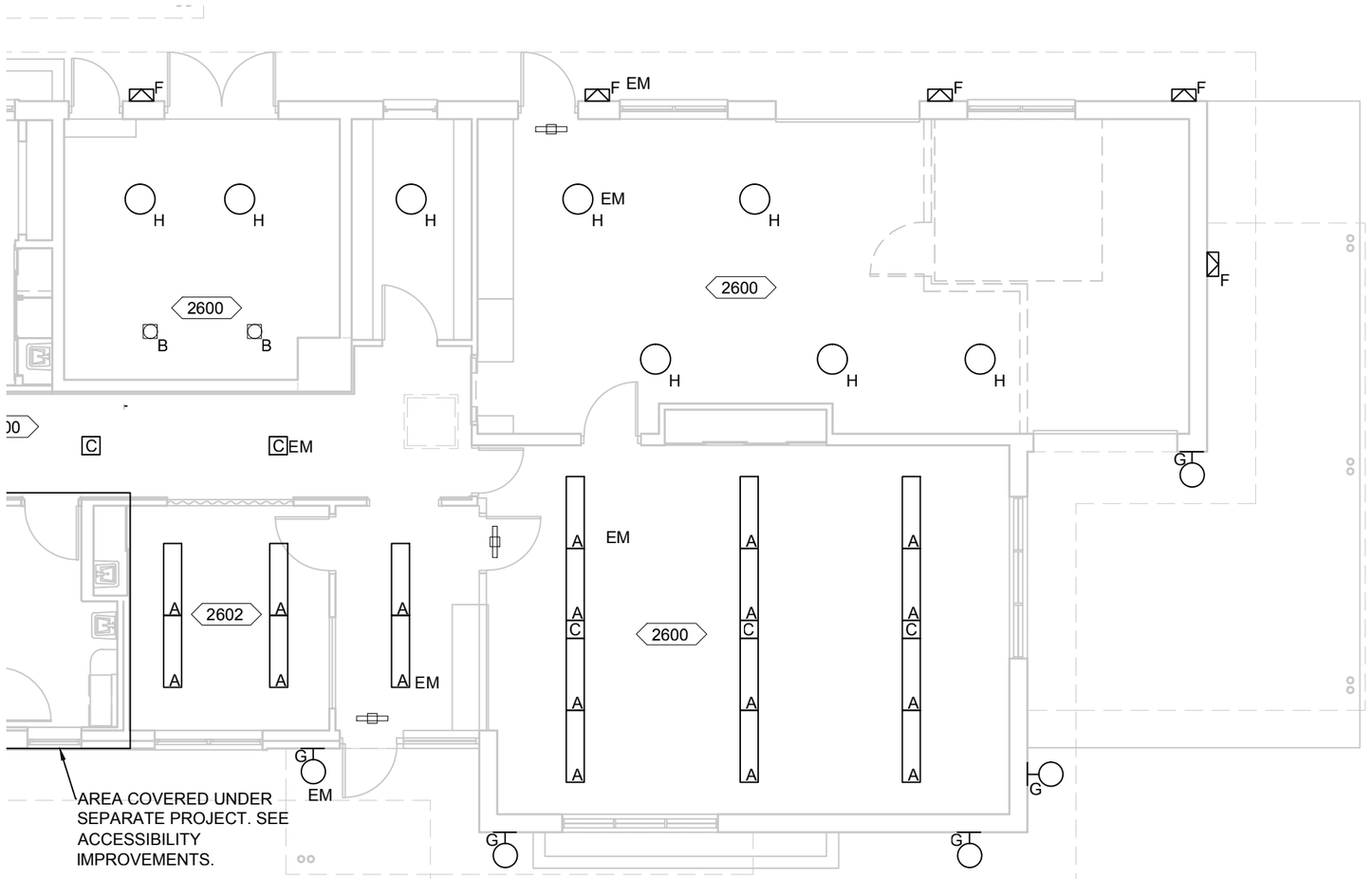
FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	86	143
F.A. NO.				

INSTALLATION NOTES:

2600 RETROFIT EXISTING LIGHT FIXTURES WITH NEW T8 FLUORESCENT OR EQUIVALENT LUMEN COMPACT FLUORESCENT LIGHT BULBS.

2601 PROVIDE CENTRAL BACKUP BATTERY PACK FOR LIGHT FIXTURES DESIGNATED AS EM (EMEREGNCY EGRESS) LIGHT FIXTURES. SEE LIGTING LAYOUT. BATTERY SHALL ALOS LIGHT THE EXIT SIGNS. LOCATED BATTERY PACK IN JANITORS CLOSET.



LIGHTING LEGEND:

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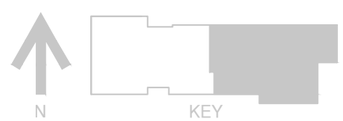
$3	3 - WAY SWITCH (48" A.F.F.)
$P.L.	PILOT LIGHT SWITCH (48" A.F.F.)
$M	SYNERGY LIRW NIGHT OCCUPANCY SENSOR
/#	2' X 4' FLUORESCENT FIXTURE FIXTURE TYPE
□#	RECESSED CAN FIXTURE FIXTURE TYPE
	EXIT SIGN CONNECTED TO EM CIRCUIT
	ELECTRICAL PANEL



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SQUAD

1 LIGHTING LAYOUT EAST
SCALE: 1/8" = 1'-0'

KANSAS DEPARTMENT OF TRANSPORTATION

LIGHTING LAYOUT EAST

E.7.0

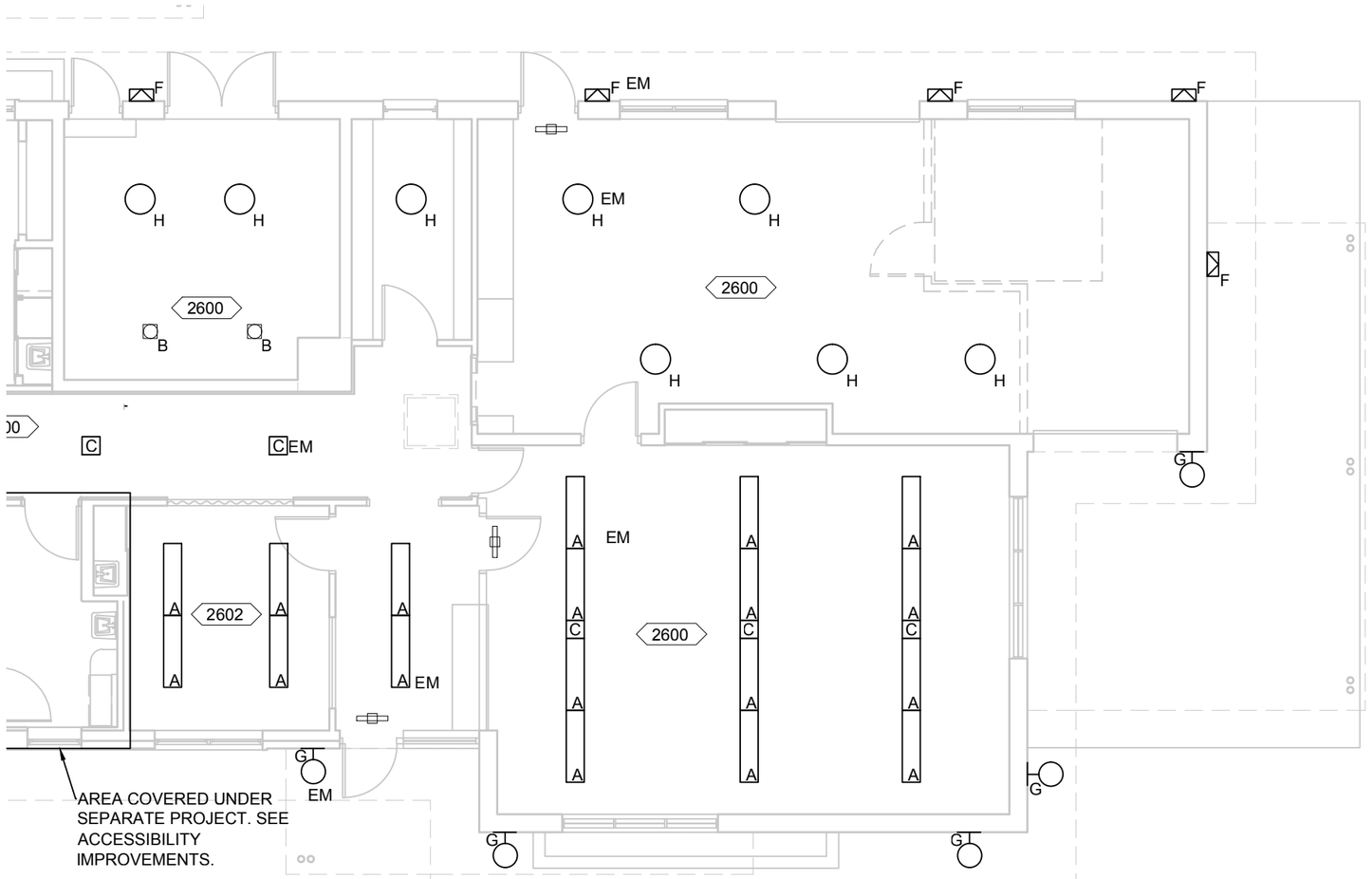
FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	86	143
F.A. NO.				

INSTALLATION NOTES:

2600 RETROFIT EXISTING LIGHT FIXTURES WITH NEW T8 FLUORESCENT OR EQUIVALENT LUMEN COMPACT FLUORESCENT LIGHT BULBS.

2601 PROVIDE CENTRAL BACKUP BATTERY PACK FOR LIGHT FIXTURES DESIGNATED AS EM (EMEREGNCY EGRESS) LIGHT FIXTURES. SEE LIGTING LAYOUT. BATTERY SHALL ALOS LIGHT THE EXIT SIGNS. LOCATED BATTERY PACK IN JANITORS CLOSET.



LIGHTING LEGEND:

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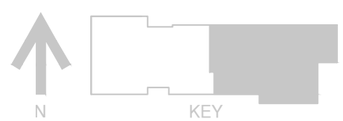
$3	3 - WAY SWITCH (48" A.F.F.)
$P.L.	PILOT LIGHT SWITCH (48" A.F.F.)
$M	SYNERGY LIRW NIGHT OCCUPANCY SENSOR
/#	2' X 4' FLUORESCENT FIXTURE FIXTURE TYPE
□#	RECESSED CAN FIXTURE FIXTURE TYPE
	EXIT SIGN CONNECTED TO EM CIRCUIT
	ELECTRICAL PANEL



DATE
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1 LIGHTING LAYOUT EAST
SCALE: 1/8" = 1'-0'

KANSAS DEPARTMENT OF TRANSPORTATION

LIGHTING LAYOUT EAST

E.7.0

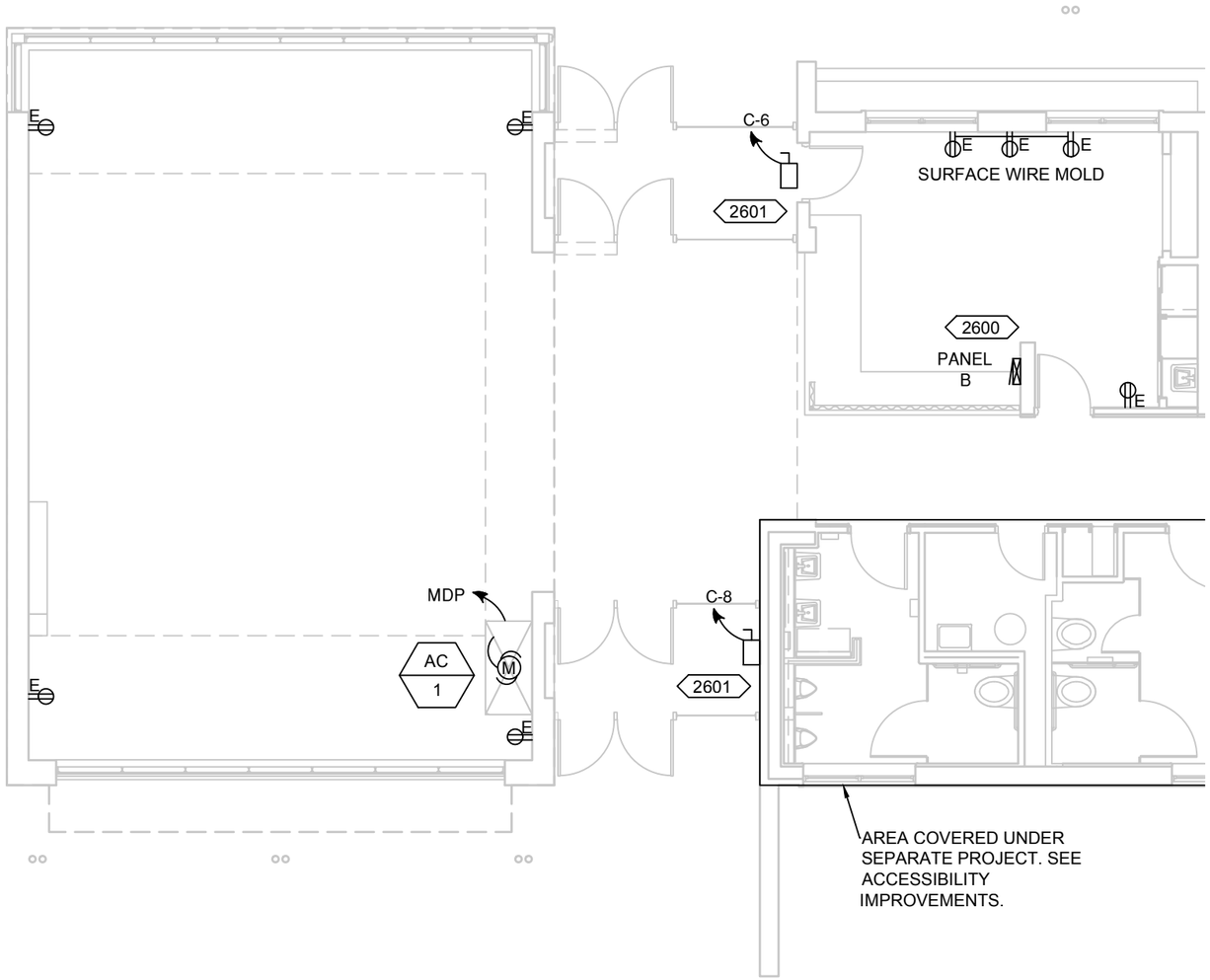
FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	87	143
F.A. NO.				

INSTALLATION NOTES:

2600 PANEL B TO BE REMOVED AND REPLACED. EXISTING WIRING AND CIRCUITS TO REMAIN.

2601 PROVIDE POWER ABOVE THE CEILING NEAR THE MAIN ENTRY DOORS FOR NEW AUTOMATIC DOORS. PROVIDE DISCONNECT ABOVE THE LAY-IN TILE CEILING FOR THE AUTOMATIC DOORS.



POWER LEGEND:

- STANDARD RECEPTACLE (18" A.F.F.)
- E EXISTING RECEPTACLE
- WP WATER PROOF TYPE RECEPTACLE
- G GFI RECEPTACLE (WITHIN 6' OF A SINK)
- M EQUIPMENT MOTOR
- DISCONNECT SWITCH
- MECH. EQUIPMENT DESIGNATION / DESIGNATED NUMBER

1 POWER LAYOUT WEST
SCALE: 1/8" = 1'-0'

KANSAS DEPARTMENT OF TRANSPORTATION

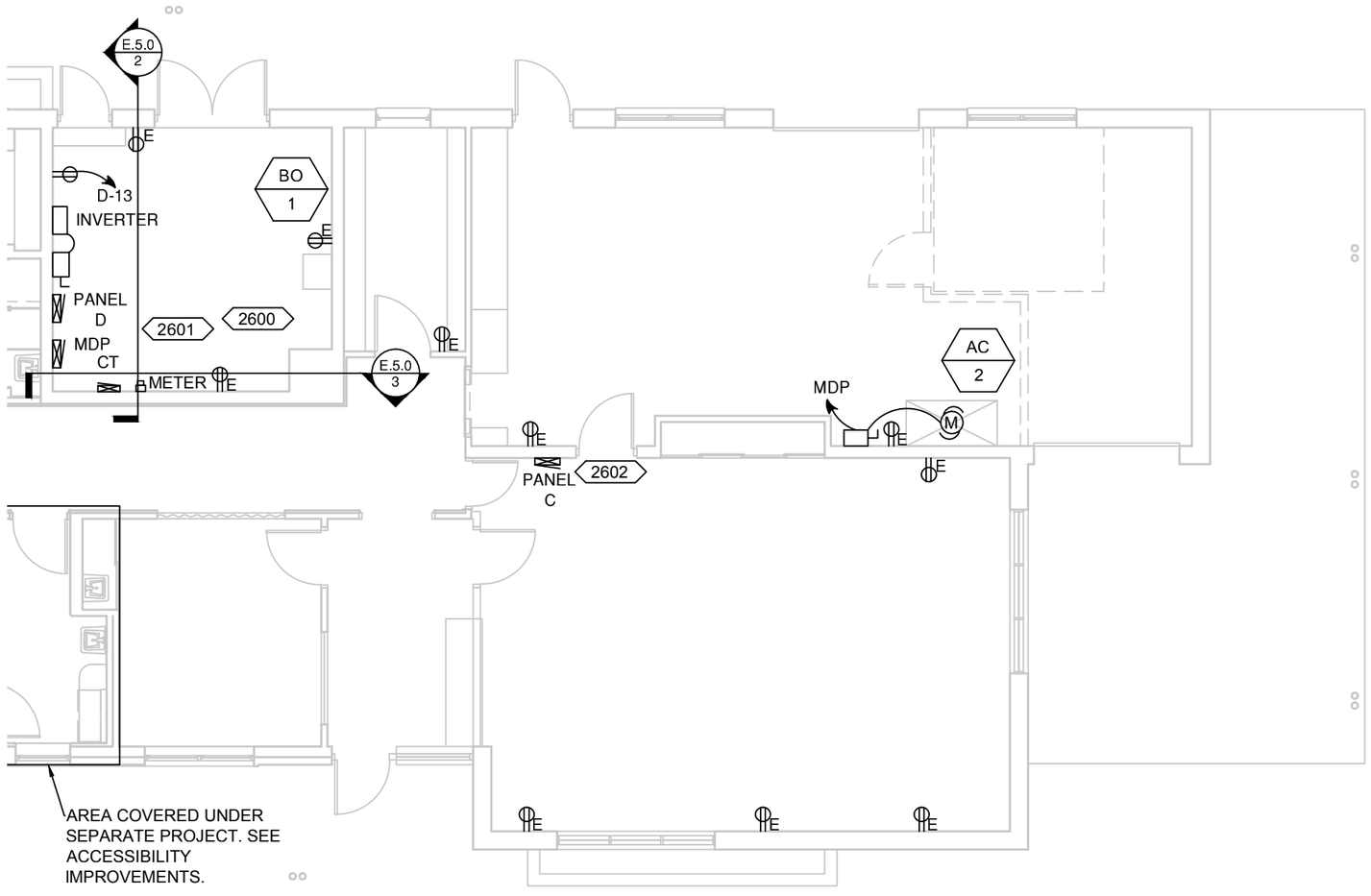
POWER LAYOUT WEST

E.8.0

FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

DATE	BY	
		SURVEYED
		PLOTTED
		INKED
		DESIGNED
		SQUAD

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	88	143
F.A. NO.				



INSTALLATION NOTES:

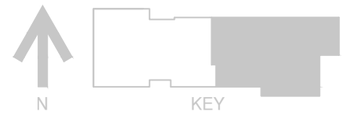
2600 CONNECT CIRCUITS FROM EXISTING PANEL A LOCATED IN THE HALLWAY TO NEW MDP PANEL LOCATED IN THE BOILER ROOM, REFERENCE ELECTRICAL RISER AND PANEL SCHEDULES FOR MORE INFORMATION.

2601 MDP AND PANEL D TO BE LOCATED ON WEST WALL OF BOILER ROOM.

2602 PANEL C TO BE REMOVED AND REPLACED. EXISTING WIRING AND CIRCUITS TO REMAIN. ADD CIRCUITS AS NEEDED. SEE E.3.0 FOR MORE INFORMATION.

POWER LEGEND:

- STANDARD RECEPTACLE (18" A.F.F.)
- E — EXISTING RECEPTACLE
- WP — WATER PROOF TYPE RECEPTACLE
- G — GFI RECEPTACLE (WITHIN 6' OF A SINK)
- M — EQUIPMENT MOTOR
- DISCONNECT SWITCH
- MECH. EQUIPMENT DESIGNATION / DESIGNATED NUMBER



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1 POWER LAYOUT EAST
SCALE: 1/8" = 1'-0'

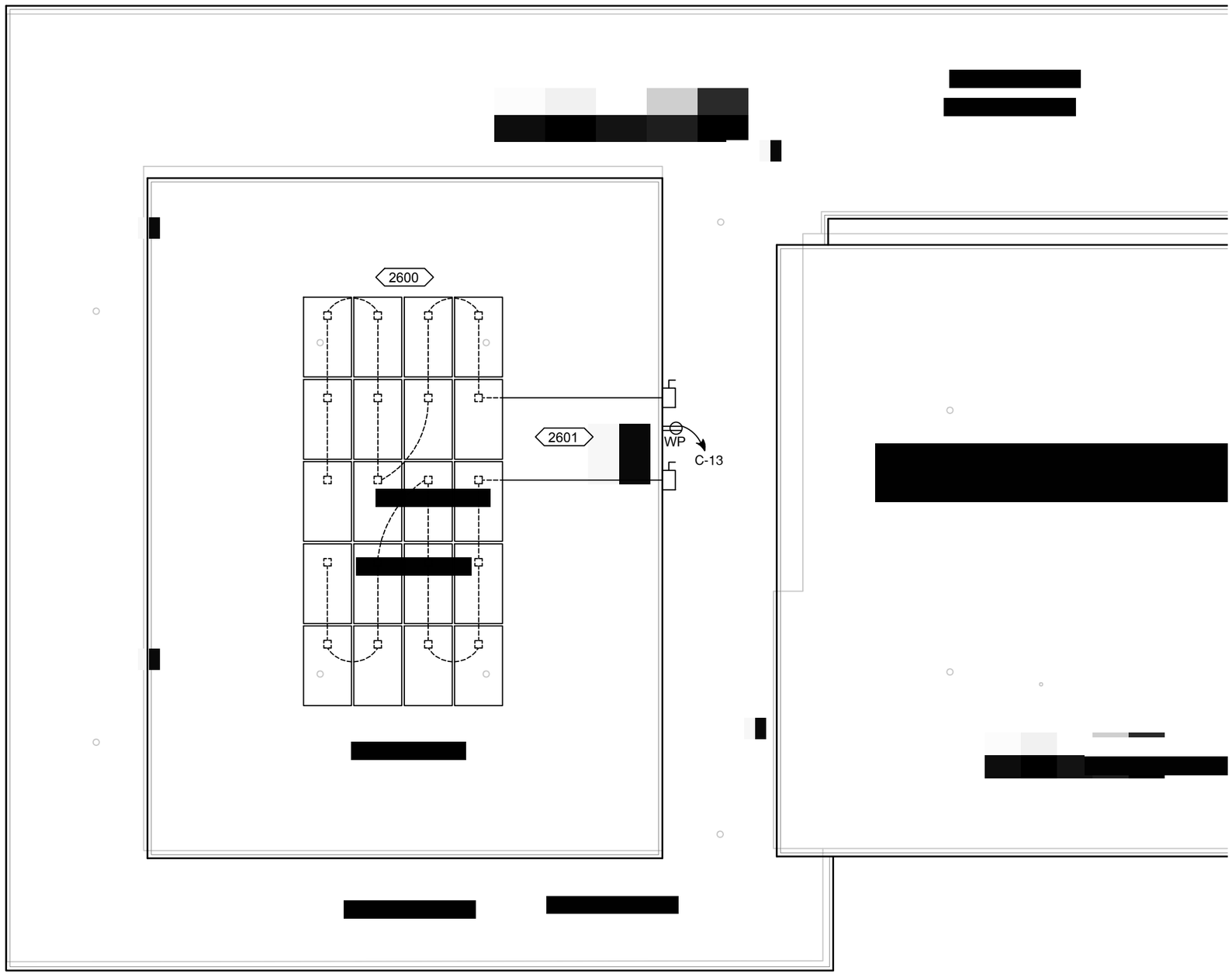
KANSAS DEPARTMENT OF TRANSPORTATION

POWER LAYOUT EAST

E.9.0

FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	89	143
F.A. NO.				



INSTALLATION NOTES:

2600 PHOTOVOLTAIC ARRAY TO BE ARRANGED INTO TWO STRINGS OF 10 PANELS. PANELS TO BE 250 W PANDA MODEL YL250C-30B, 250 W ASTRONERGY CHSM6610P, OR EQUIVALENT, AND PLACED HORIZONTAL. PROVIDE BALLASTED OR ANCHORING SYSTEM TO HOLD PANELS IN PLACE ON THE ROOF.

2601 PLACE TWO SERVICE DC DISCONNECTS ON ROOF, ALONG WITH WEATHER PROOF RECEPTACLE.

POWER LEGEND:

- STANDARD RECEPTACLE (18" A.F.F.)
- EXISTING RECEPTACLE
- WATER PROOF TYPE RECEPTACLE
- GFI RECEPTACLE (WITHIN 6' OF A SINK)
- EQUIPMENT MOTOR
- DISCONNECT SWITCH
- MECH. EQUIPMENT DESIGNATION / DESIGNATED NUMBER

DATE
BY
SURVEYED
PLOTTED
INKED
DESIGNED
SQUAD

1 PHOTOVOLTAIC PANEL LAYOUT
SCALE: 1/8" = 1'-0'

KANSAS DEPARTMENT OF TRANSPORTATION

PHOTOVOLTAIC PANEL LAYOUT

E.10.0

FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	90	143
F.A. NO.				

GENERAL NOTES: (WET-PIPE FIRE SUPPRESSION SPRINKLERS)

1. INCLUDE ALL PLANT FACILITIES, LABOR, MATERIAL, EQUIPMENT AND SERVICE NECESSARY FOR THE DESIGN, FABRICATION AND INSTALLATION OF THE AUTOMATIC SPRINKLER SYSTEM AND PIPING.

2. SYSTEM INSTALLATION SHALL BE DESIGNED AND COMPLY WITH THE LATEST VERSION OF THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA), NFPA 13 INSTALLATION OF SPRINKLER SYSTEMS, AND NFPA 70 NATIONAL ELECTRICAL CODE.

3. SUBMIT DRAWINGS SIGNED BY A REGISTERED FIRE PROTECTION ENGINEER OR SIGNED BY A NICET IP CERTIFIED FIRE SUPPRESSION DESIGNER IF ALLOWED BY LOCAL FIRE CODE OFFICIAL. SUBMIT HYDRAULIC CALCULATIONS TO SUBSTANTIATE COMPLIANCE WITH HYDRAULIC DESIGN REQUIREMENTS. SUBMIT NAME OF SOFTWARE PROGRAM IF USED AND CERTIFICATES.

4. DESIGN SHALL BE IN ACCORDANCE WITH HYDRAULIC CALCULATIONS FOR UNIFORM DISTRIBUTION OF WATER OVER THE DESIGN AREA. LOCATE SPRINKLER HEADS IN A CONSISTENT PATTERN. FIELD VERIFY ROUTING IN THE EXISTING BUILDING.

5. DEVICES AND EQUIPMENT FOR FIRE PROTECTION SERVICE SHALL BE UL FPED LISTED.

6. IN GENERAL, WORK SHALL INCLUDE BUT NOT BE LIMITED TO:
A. COMPLETE OVERHEAD AUTOMATIC SPRINKLER SYSTEM.
B. INSTALLATION OF SYSTEM CONTROL VALVES, POST INDICATOR VALVES (IF REQUIRED), CONTROL VALVE, DRAIN VALVES, INSPECTOR'S TEST VALVES, PLUS INSTALLATION OF GAUGES AT MAIN RISER, AND SIGNS TO IDENTIFY SAID VALVES.
C. INSTALLATION OF WATER FLOW INDICATORS, PRESSURE-OPERATED ALARM SWITCHES AND VALVE SUPERVISORY SWITCHES.
D. INSTALLATION OF OS&Y AND BUTTERFLY VALVES.
E. INSTALLATION OF 2-1/2 INCH x 2-1/2 INCH x 4 INCH FIRE DEPARTMENT PUMPER CONNECTION (CONSULT LOCAL FIRE DEPARTMENT FOR PUMPER CONNECTION REQUIREMENTS AND ADJUST AS NECESSARY).

7. PROVIDE FITTINGS FOR CHANGES IN DIRECTION OF PIPING AND FOR CONNECTIONS. MAKE CHANGES IN PIPING SIZES THROUGH TAPERED REDUCING PIPE FITTINGS; BUSHINGS WILL NOT BE PERMITTED.

8. STEEL PIPING SHALL BE SCHEDULE 40. FITTINGS INTO WHICH SPRINKLER HEADS, SPRINKLER HEAD RISER NIPPLES, OR DROP NIPPLES ARE THREADED SHALL BE THREADED TYPE. FITTINGS SHALL BE UL FPED LISTED. CPVC FIRE SERVICE PIPING MAY BE USED WHERE ALLOWED BY LOCAL CODE OFFICIALS AND WHERE PIPING IS HIDDEN AND WILL NOT BE EXPOSED TO ANY POTENTIAL CONTACT DAMAGE.

9. PROVIDE NOMINAL 0.50 INCH ORIFICE SPRINKLER HEADS. O-RINGS WILL NOT BE PERMITTED IN SPRINKLER HEADS. RELEASE ELEMENT OF EACH HEAD SHALL BE OF THE STANDARD TEMPERATURE RATING OR HIGHER AS SUITABLE FOR THE SPECIFIC APPLICATION.

10. PROVIDE PIPE HANGERS AND SUPPORTS IN ACCORDANCE WITH NFPA 13.

11. INSTALL PIPING STRAIGHT AND TRUE TO BEAR EVENLY ON HANGERS AND SUPPORTS. ALL PIPING SHALL BE REAMED TO REMOVE ALL BURRS, AND PIPE SECTIONS SHALL BE CLEANED INSIDE TO REMOVE ALL CHIPS AND FOREIGN MATERIALS PRIOR TO MAKING JOINTS.

12. KEEP THE INTERIOR AND ENDS OF NEW PIPING AND EXISTING PIPING AFFECTED BY CONTRACTOR'S OPERATIONS THOROUGHLY CLEANED OF WATER AND FOREIGN MATTER. KEEP PIPING SYSTEMS CLEAN DURING INSTALLATION BY MEANS OF PLUGS OR OTHER APPROVED METHODS. WHEN WORK IS NOT IN PROGRESS, SECURELY CLOSE OPEN ENDS OF PIPING TO PREVENT ENTRY OF WATER AND FOREIGN MATTER. INSPECT PIPING BEFORE PLACING INTO POSITION.

13. PROVIDE TEFLON PIPE THREAD PASTE ON MALE THREADS.

14. A DOUBLE CHECK BACK FLOW PREVENTER SHALL BE PROVIDED ON ALL FIRE MAINS AND SHALL BE ZURN MODEL 350, WATTS MODEL LF709, OR APPROVED EQUAL. THE DOUBLE CHECK BACK FLOW PREVENTER SHALL BE INSTALLED WITHIN BUILDING FOR FREEZE PROTECTION WITH A MINIMUM OF TWELVE (12) INCHES OF CLEAR SPACE BELOW OR AROUND THE DEVICE. THE DOUBLE CHECK BACK FLOW PREVENTER SHALL BE PROVIDED WITH TWO (2) MUELLER # A-2360-6 OUTSIDE SCREW AND YOKE (OS&Y) VALVES HAVING RESILIENT SEATS, WATTS SERIES 403RT-RW, OR APPROVED EQUAL. ONE SHALL BE LOCATED ON THE SUPPLY SIDE OF THE DOUBLE CHECK BACK FLOW PREVENTER. THE OS&Y VALVES SHALL BE PROVIDED WITH VALVE SUPERVISORY SWITCHES AND SHALL BE CONNECTED TO THE BUILDING'S FIRE ALARM SYSTEM.

15. THE FIRE DEPARTMENT PUMPER CONNECTION AND ITS REQUIRED SWING CHECK VALVE SHALL BE CONNECTED TO THE FIRE MAIN AND SHALL BE LOCATED ON THE SYSTEM SIDE AND DIRECTLY BELOW THE SECOND OS&Y VALVE.

16. THE FIRE DEPARTMENT PUMPER CONNECTION SHOULD BE LOCATED ADJACENT TO THE STREET FOR FIRE DEPARTMENT ACCESS.

17. OUTSIDE VALVES, IF REQUIRED, MUST BE POST INDICATING VALVES (PIV'S) AND SHOULD BE LOCATED FORTY (40) FEET FROM THE EXTERIOR WALL OF THE BUILDING, MINIMUM, UNLESS FACES BY A BLANK WALL WHERE A LESSER DISTANCE MAY BE ACCEPTABLE.

18. ALL DRAIN VALVES AND TEST VALVES SHALL BE REPLACEABLE RUBBER OR COMPOSITION DISCS.

19. ALL PENDANT SPRINKLERS LOCATED WITHIN SEVEN (7) FEET OF THE FLOOR SHALL BE PROVIDED WITH SPRINKLER GUARDS.

20. EXTRA SPRINKLERS IN QUANTITIES REQUIRED BY NFPA 13 (1989) SHALL BE PROVIDED AND SHALL BE PLACED WITHIN AN APPROVED CABINET WHICH SHALL BE LOCATED ADJACENT TO THE MAIN RISER. THE CABINET SHALL BE PROVIDED WITH A SPRINKLER WRENCH, OR SPECIAL WRENCH WHERE APPLICABLE.

21. EXTERIOR ELECTRIC HORN SHALL BE 120 VAC-POWERED, SYSTEM SENSOR SPECTRALERT #P2RHK-120, FEDERAL 350 WEATHERPROOF, OR APPROVED EQUAL.

22. VANE TYPE WATER FLOW INDICATORS SHALL BE POTTER VSR SERIES, SYSTEM SENSOR WFD SERIES, OR APPROVED EQUAL, AND SHALL INCLUDE TWO (2) SINGLE POLE DOUBLE THROW (SPDT) CONTACTS, AND PNEUMATIC ADJUSTABLE RETARD.

23. VALVE SUPERVISORY SWITCHES SHALL INCLUDE SPDT CONTACTS. BUTTERFLY VALVES WITH INTERNAL SUPERVISORY SWITCHES ARE ACCEPTABLE. EXTERNAL MOUNTED SUPERVISORY SWITCHES SHALL BE POTTER DEVICES. VALVE SUPERVISORY SWITCHES SHALL BE INSTALLED AND ADJUSTED.

24. INSPECTOR'S TEST VALVES SHALL BE INSTALLED DOWNSTREAM OF WATER-FLOW DEVICE. INSPECTOR'S TEST OUTLETS SHALL BE PIPED TO DRAIN OUTSIDE OF THE BUILDING OR INTO THE SEWER DRAIN. VALVES SHALL BE WITHIN SIX (6) FEET OF THE FLOOR OR FINISHED GRADE. WHEN THE DISCHARGE OUTLET CANNOT BE SEEN FROM THE VALVE OR WHEN INSPECTOR'S TEST CONNECTIONS ARE PIPED INTO THE SEWER SYSTEM, A SIGHT GLASS SHALL BE PROVIDED. DIRECT INTERCONNECTIONS SHALL NOT BE MADE BETWEEN SEWERS AND SPRINKLER DRAINS.

25. INSTALL CONTROL VALVES, SUPPLY VALVES, AND WATER FLOW SWITCHES IN CLEARLY ACCESSIBLE LOCATIONS WITHIN FIVE (5) FEET OF THE FLOOR.

26. INSTALL FIRE DEPARTMENT PUMPER CONNECTION EIGHTEEN (18) INCHES TO TWENTY-FOUR (24) INCHES ABOVE PAVING OR GRADE WITH TWELVE (12) INCH CLEARANCE AROUND ALL SIDES.

27. INSTALL CHECK VALVES AND WATER FLOW INDICATORS WITH EIGHTEEN (18) INCH CLEARANCE FROM OBSTRUCTIONS SO THAT THEY CAN BE REMOVED AND SERVICED.

28. PRESSURE GAUGES SHALL BE PROVIDED AT EACH SIDE OF THE MAIN CHECK VALVE AND AT THE CONTROL VALVE.

29. PROVIDE PIPE MARKERS ON EXPOSED PIPING WITH THE WORDS "AUTO SPRINKLER" OR "FIRE SPRINKLER" IN A MINIMUM 2 INCH HIGH LETTERING SO AS TO BE EASILY READ FROM THE GROUND OR FLOOR LEVEL. MARKERS SHALL BE SPACED AT A MAXIMUM OF 25 FEET BETWEEN MARKERS.

30. UNDERGROUND MAIN PIPING SHALL BE FLUSHED PRIOR TO CONNECTION TO SPRINKLER RISER. FLUSHING SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA 13 AND NFPA 24, PRIVATE FIRE SERVICE MAINS. FLUSHING SHALL BE CONTINUED AT LEAST UNTIL A CLEAR FLOW IS OBTAINED.

31. ALL COMPONENTS OF THE SYSTEM, FROM THE TAPPING VALVE TO BRANCH LINES, MUST BE HYDROSTATICALLY TESTED AT 200 PSI FOR A MINIMUM OF TWO (2) HOURS. ALL PIPING MUST BE EXPOSED FOR THE HYDROSTATIC TEST. PORTIONS OF THE SYSTEMS MAY BE TESTED SEPARATELY, BUT CARE MUST BE TAKEN TO INSURE THAT ALL PIPING, CONNECTIONS THERETO, AND DEVICES ARE TESTED.

32. THE CONTRACTOR SHALL CERTIFY THAT THE WORK IS INSTALLED IN ACCORDANCE WITH THE PROJECT REQUIREMENTS AND THE REQUIREMENTS OF NFPA 13 AND NFPA 24.

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	DESIGNED
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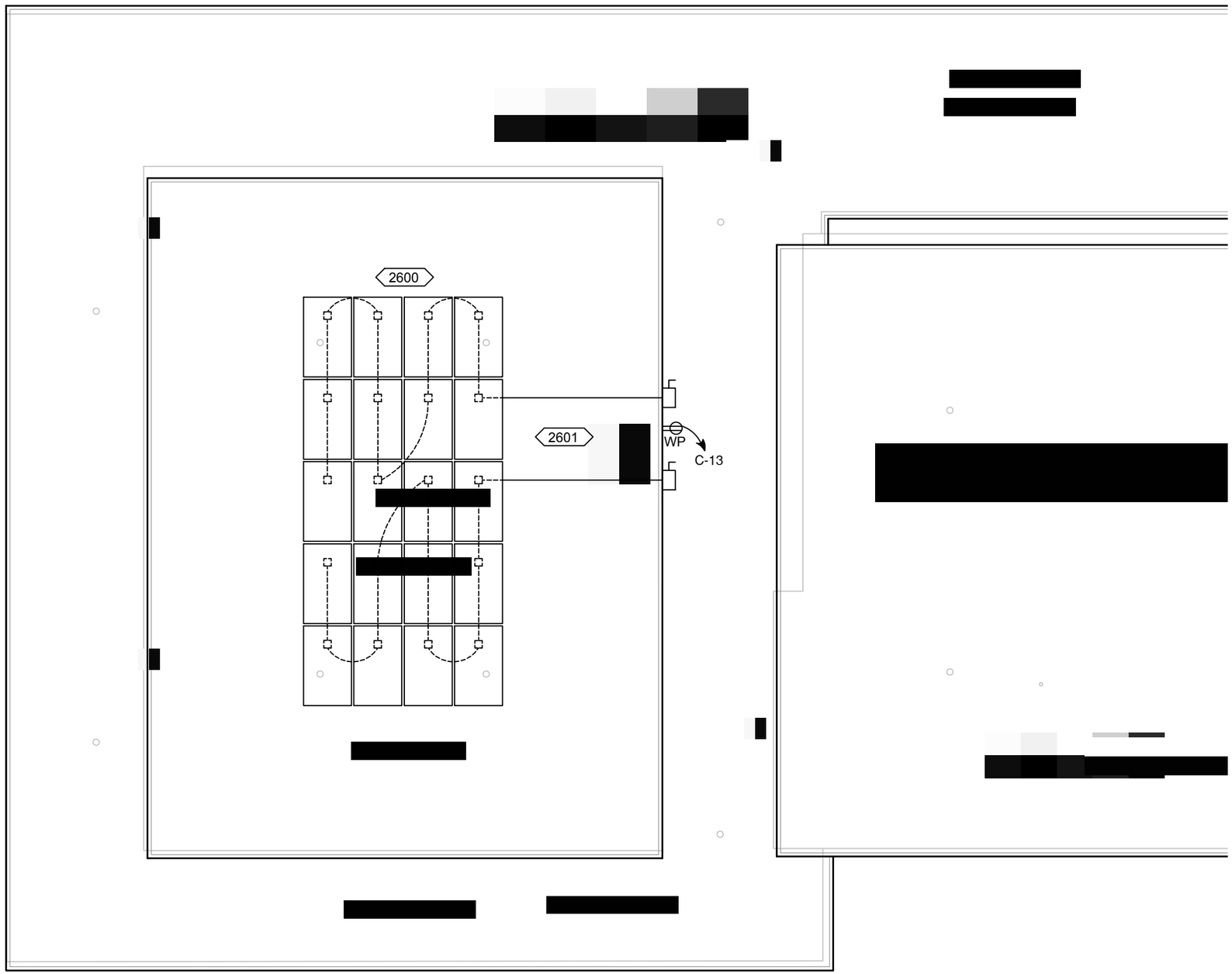
KANSAS DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

F.1.0

FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	89	143
F.A. NO.				



INSTALLATION NOTES:

2600 PHOTOVOLTAIC ARRAY TO BE ARRANGED INTO TWO STRINGS OF 10 PANELS. PANELS TO BE 250 W PANDA MODEL YL250C-30B, 250 W ASTRONERGY CHSM6610P, OR EQUIVALENT, AND PLACED HORIZONTAL. PROVIDE BALLASTED OR ANCHORING SYSTEM TO HOLD PANELS IN PLACE ON THE ROOF.

2601 PLACE TWO SERVICE DC DISCONNECTS ON ROOF, ALONG WITH WEATHER PROOF RECEPTACLE.

POWER LEGEND:

- STANDARD RECEPTACLE (18" A.F.F.)
- EXISTING RECEPTACLE
- WATER PROOF TYPE RECEPTACLE
- GFI RECEPTACLE (WITHIN 6' OF A SINK)
- EQUIPMENT MOTOR
- DISCONNECT SWITCH
- MECH. EQUIPMENT DESIGNATION / DESIGNATED NUMBER

DATE
BY
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PLOTTED
INKED
DESIGNED
SQUAD

1 PHOTOVOLTAIC PANEL LAYOUT
SCALE: 1/8" = 1'-0'

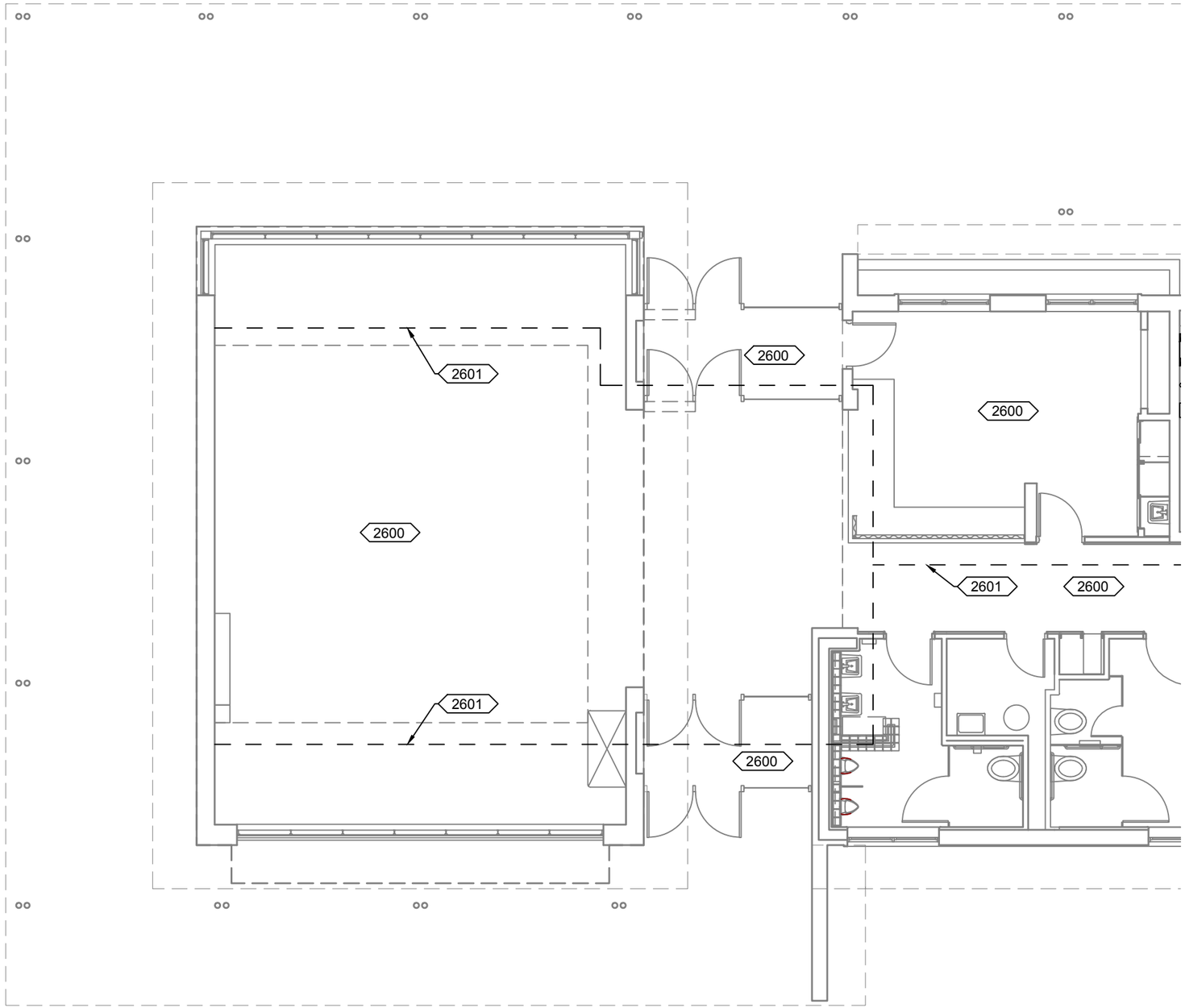
KANSAS DEPARTMENT OF TRANSPORTATION

PHOTOVOLTAIC PANEL LAYOUT

E.10.0

FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	91	143
F.A. NO.				



INSTALLATION NOTES: (THIS SHEET ONLY)

2600 SPRINKLER HEADS TO BE PLACED APPROPRIATELY ON CEILING AND WALLS TO COVER ALL AREAS.

2601 PROPOSED ROUTE FOR FIRE SPRINKLER PIPING WITHIN SOFFIT AND BELOW LAY-IN TILE CEILING. FIELD VERIFY ROUTING.

LEGEND:

- MAIN FIRE ALARM CONTROL PANEL
- 50dB / F / 15cd — AUDIO/VISUAL FIRE ALARM DEVICE WITH, FOR EXAMPLE, 50dB AND 15 CD OUTPUT, MOUNT AT 6'-8" A.F.F.
- (S) PHOTOELECTRIC TYPE SMOKE DETECTOR
- F — MANUAL FIRE ALARM PULL STATION, MOUNT AT 48" A.F.F.
- AV — SPRINKLER SYSTEM ALARM SWITCH
- FS — SPRINKLER SYSTEM FLOW SWITCH
- TS — SPRINKLER VALVE TAMPER SWITCH

DATE	BY

SURVEYED
PLOTTED
INKED
DESIGNED
SQUAD

1 FIRE SUPPRESSION LAYOUT WEST
SCALE: 1/8" = 1'-0"

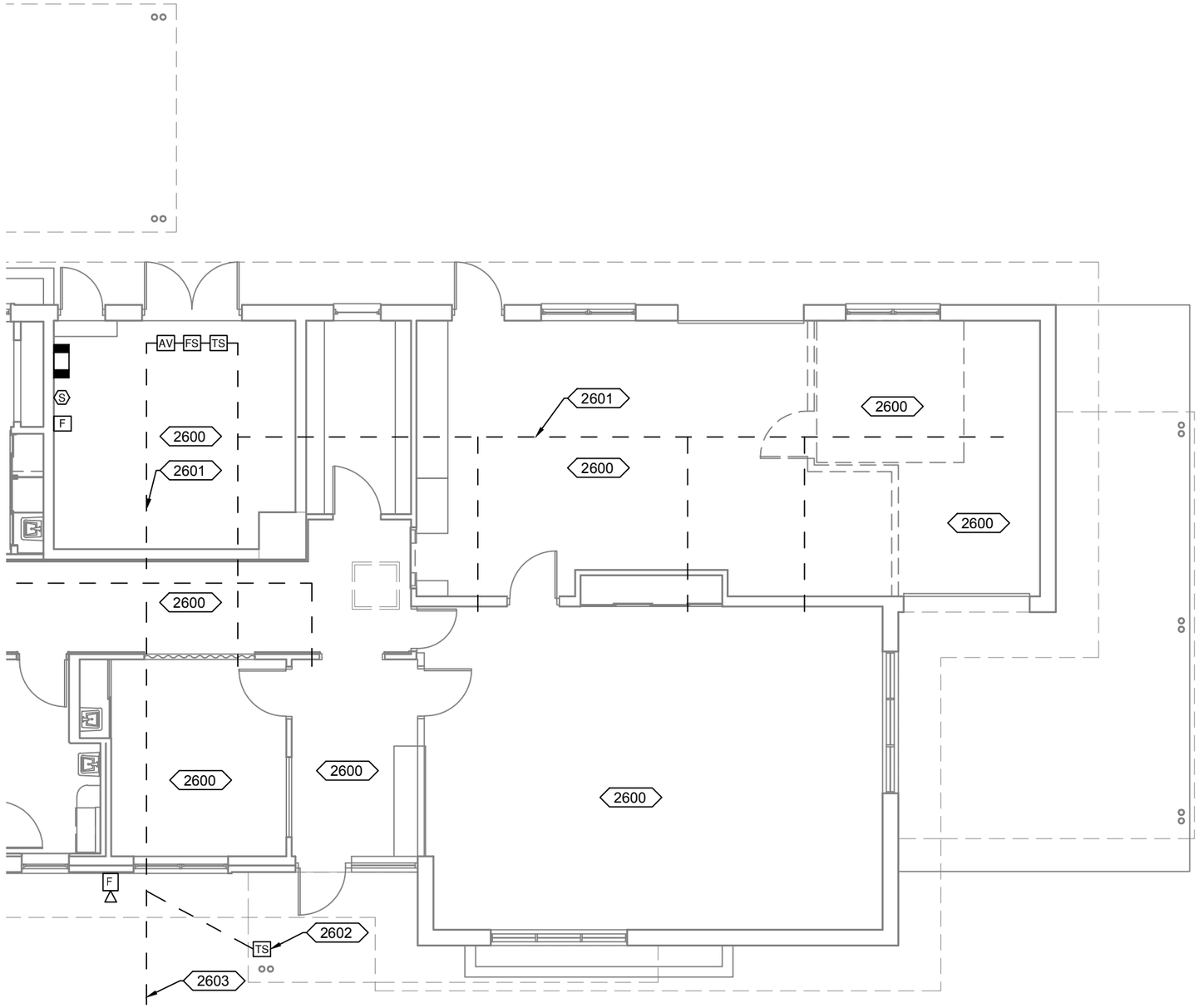
KANSAS DEPARTMENT OF TRANSPORTATION

FIRE SUPPRESSION LAYOUT WEST

F.2.0

FHWA APPROVAL XX-XX-XX		APP'D	XXX
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	92	143
F.A. NO.				



INSTALLATION NOTES: (THIS SHEET ONLY)

2600 SPRINKLER HEADS TO BE PLACED APPROPRIATELY ON CEILING AND WALLS TO COVER ALL AREAS.

2601 PROPOSED ROUTE FOR FIRE SPRINKLER PIPING WITHIN SOFFIT AND BELOW LAY-IN TILE CEILING. FIELD VERIFY ROUTING.

2602 LOCATE FIRE DEPARTMENT CONNECTION AND PIV ABOVE NATURAL GAS METER VAULT.

2603 BORE UNDER BUILDING TO BOILER ROOM FOR NEW 4" FIRE SERVICE LINE.

LEGEND:

MAIN FIRE ALARM CONTROL PANEL

50dB F 15cd AUDIO/VISUAL FIRE ALARM DEVICE WITH, FOR EXAMPLE, 50dB AND 15 CD OUTPUT, MOUNT AT 6'-8" A.F.F.

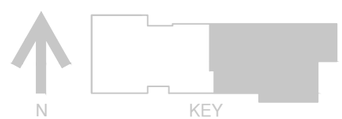
S PHOTOELECTRIC TYPE SMOKE DETECTOR

F MANUAL FIRE ALARM PULL STATION, MOUNT AT 48" A.F.F.

AV SPRINKLER SYSTEM ALARM SWITCH

FS SPRINKLER SYSTEM FLOW SWITCH

TS SPRINKLER VALVE TAMPER SWITCH



DATE
BY
SURVEYED
PLOTTED
INKED
DESIGNED
SQUAD

1 FIRE ALARM LAYOUT WEST
SCALE: 1/8" = 1'-0"

KANSAS DEPARTMENT OF TRANSPORTATION

FIRE SUPPRESSION LAYOUT EAST

F.3.0

FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	93	143
F.A. NO.	TEA-T037(301)			

SITE CONTROL

BENCHMARK:
SOUTHEAST CORNER CONCRETE WALK EAST OF WHEELCHAIR LIFT STORAGE ENCLOSURE
ELEV.=826.00

SANITARY MANHOLE #2720
TOP ELEV. = 824.64'
INVERTS UNMEASURABLE DUE TO SHAPE OF STRUCTURE

℄ OUT (NE) 24"VCP = 821.04'

FORCE MAIN LINE

UNDERGROUND QWEST COMMUNICATIONS LINE

AREA INLET #2698
TOP ELEV. = 823.04'
℄ IN (SW) 16"DIP = 821.09'
℄ OUT (NE) 12"HDPE = 821.04'

Zoned OS
RESERVE NO. 8
CITY OF LAWRENCE

JUNCTION BOX #3940
TOP ELEV. = 826.08'
℄ IN (NE) 12"RCP = 821.78'
℄ IN (NW) 12"RCP = 821.38'
℄ IN (SE) 12"RCP = 821.43'
℄ OUT (NE) 12"RCP = 821.33'

TRAFFIC SIGNAL CABINET

DIAMOND PLATE-COVERED INLET #3941
TOP ELEV. = 825.48'
℄ OUT (NNW) 15""VCP=822.33'

UNDERGROUND SPRINT FIBER OPTIC CABLE

6" PVC UNDER-PLATFORM DRAIN (TYP.) LOCATION APPROX.

"SEWER FORCE MAIN (785-843-2685)" SIGN

TRENCH DRAIN OUTLET
TOP ELEV. = 825.99'
℄ OUT (NE) 4"PVC = 823.74'

6" PVC UNDER-PLATFORM DRAIN (TYP.)

0.75'x216'

CURB INLET #3933
ELEV. = 825.80'
15"CMP = 822.90'

METER RACK

WHEELCHAIR LIFT STORAGE ENCLOSURE

BENCHMARK ELEV.=826.00

3" ELECTRIC RISER

28" TALL RAILROAD TIE GUARDRAIL

"AMTRAK LAWRENCE, KANSAS INFORMATION" SIGN

PLATFORM

CANOPY (TYP.)

HANDICAP PARKING SIGN

OWNER: ATCHISON, TOPEKA & SANTA FE RR CO
C/O BURLINGTON NORTHERN SANTA FE RR CO
PIN NUMBER: 023-999-99-9-99-99-990.06-7

CONCRETE PLANTER

LEASE AREA
60,927 S.F.
1.399 AC.,±

METAL ACCESS LID FOR UNDERGROUND GAS MAIN VAULT

N88°08'12"E 2.29'

COMMUNICATION

S52°11'11"E 149.

NEW YORK STREET

80' R/W

S01°49'49"E 50.15'

250.00'
S88°08'12"W

80' R/W

LOT 15
oned IG
IAEL & DEBRA
PEARSON

LOT 17
oned IG
IAEL & DEBRA
PEARSON

N88°08'12"E 117.00'

411 E 7TH ST.

409 E 7TH ST.

7TH STREET

Zoned IG
MICHAEL & VALERIE MURPHY

BOOK 0457, PAGE 1203

RICHARD KERSHENBAUM & JENNIFER LATTIMORE TRUSTEES

N01°49'49"W

S01°49'4

CURB
TOP ELE
℄ OUT (SE) 15"CM

MATCHLINE - SEE SHEET C.1.2

1" = 30'
0 30

DATE	BY
SURVEYED	
PLOTTED	
INKED	
DESIGNED	
SQUAD	

KANSAS DEPARTMENT OF TRANSPORTATION

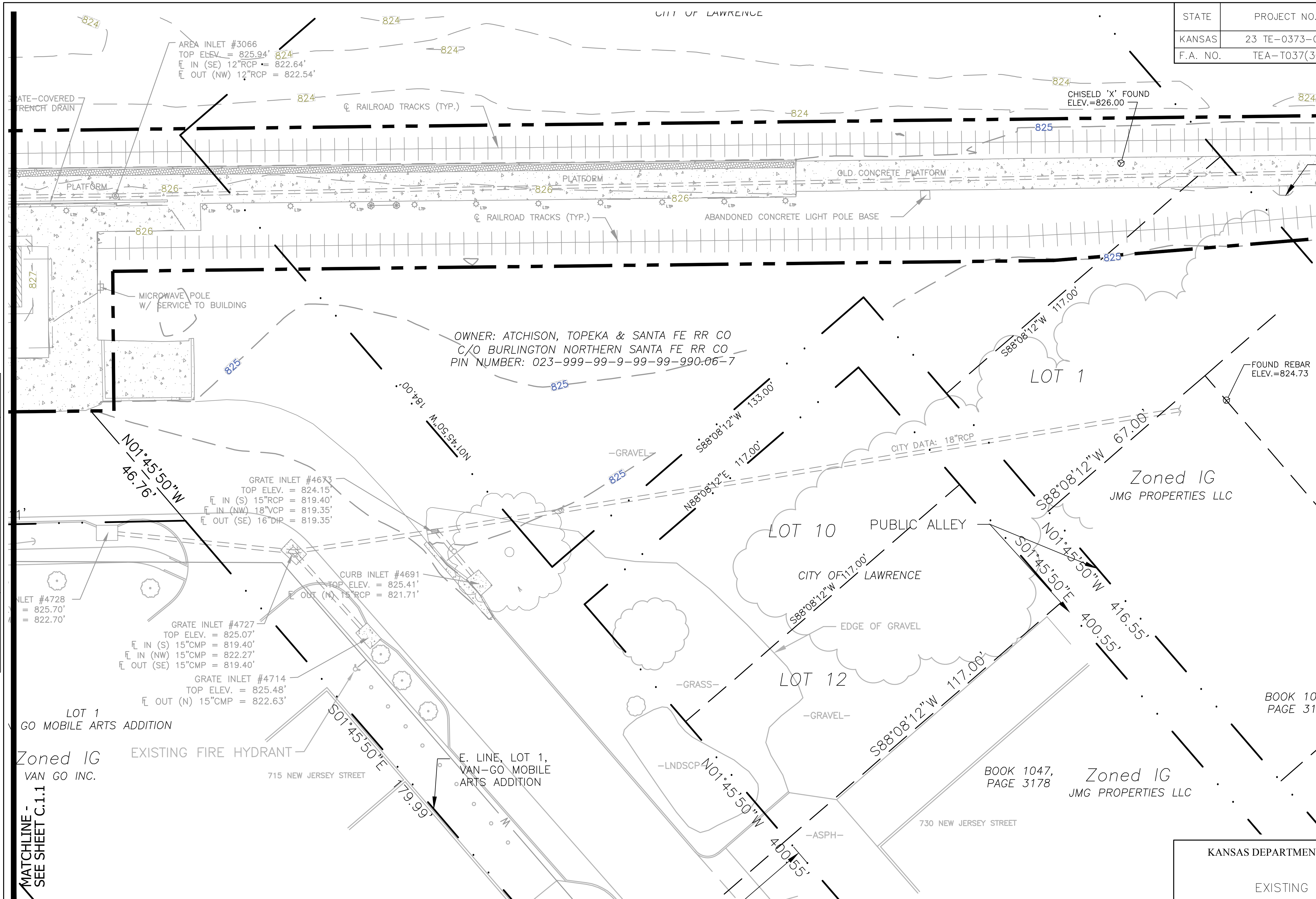
EXISTING CONDITIONS

C.1.1

FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

EXISTING CONDITIONS

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	94	143
F.A. NO.	TEA-T037(301)			



SITE CONTROL

CHISELED 'X':
APPROX. 105' EAST OF END OF NEW PLATFORM AND +/- 2' FROM NORTH EDGE OF OLD PLATFORM
ELEV.=826.00

FOUND REBAR:
APPROX. 399' EAST OF SE CORNER OF SANTA FE STATION AND 57' SOUTH OF CENTER OF RAIL SPUR
ELEV.=824.73

DATE					
BY	SURVEYED	PLOTTED	INKED	DESIGNED	SQUAD

EXISTING CONDITIONS

KANSAS DEPARTMENT OF TRANSPORTATION

EXISTING CONDITIONS

C.1.2

FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	95	143
F.A. NO.	TEA-T037(301)			

DEMOLITION NOTES:

1. ALL UTILITY INFORMATION SHOWN HEREIN IS BASED ON THE INFORMATION AVAILABLE TO THE DESIGN PROFESSIONAL AT THE TIME OF DESIGN. THE CONTRACTOR SHALL VERIFY ALL UTILITY DEPTHS AND LOCATIONS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES TO FIELD LOCATE AND/OR ADJUST THEIR UTILITY AS REQUIRED FOR CONSTRUCTION. ALL UTILITY LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE AND THE DESIGN PROFESSIONAL ASSUMES NO LIABILITY FOR SAME. ADDITIONAL EXISTING UTILITIES MAY ALSO BE ENCOUNTERED. PRIOR TO ANY EXCAVATION WORK THE CONTRACTOR MUST NOTIFY ALL UTILITIES 48 HOURS PRIOR.

2. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING AND COORDINATING REMOVAL AND REPLACEMENT OF ALL UTILITIES ON THIS SITE WITH THE OWNER, AND THE APPROPRIATE UTILITY PROVIDER, ALL UTILITIES INCLUDE, BUT ARE NOT LIMITED TO STORM, SANITARY, GAS, ELECTRIC, WATER, TELEPHONE, AND CABLE.

3. CONTACT AFFECTED OWNER(S) A MINIMUM OF 24 HOURS PRIOR TO HALTING OF UTILITY SERVICES. UNDER NO CIRCUMSTANCE SHALL ANY UTILITY SERVICE BE DISCONTINUED FOR MORE THAN ONE (1) 12-HOUR PERIOD.

4. CLEARING AND GRUBBING WITHIN 50 FEET OF A DEFINED DRAINAGE COURSE SHOULD BE AVOIDED UNLESS NOTED OTHERWISE.

5. CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE DURING DEMOLITION AND IS RESPONSIBLE FOR ALL DEWATERING NECESSARY FOR CONSTRUCTION.

6. CARE SHALL BE EXERCISED BY THE CONTRACTOR TO PRESERVE AND/OR PROTECT ANY EXISTING VEGETATION OUTSIDE OF AREAS TO BE GRADED. IT IS REQUIRED THE CONTRACTOR INSTALL CONSTRUCTION FENCING AROUND TREES AND SHRUBS WITHIN PROJECT LIMITS INTENDED TO STAY. THE PERSON(S) WHO DAMAGES ANY OF THESE AREAS SHALL BE HELD RESPONSIBLE FOR ALL COSTS OF REPLACEMENT MATERIALS AND LABOR. TREES AND SHRUBS NOT SHOWN TO BE REMOVED SHALL BE SPARED UNLESS DIRECTED BY THE ENGINEER OR LANDSCAPE ARCHITECT TO BE REMOVED. ADDITIONAL CARE TO SPARE ALL TREES AS POSSIBLE SHALL BE GIVEN WHEN WORKING AROUND TREES ADJACENT TO THE CONSTRUCTION LIMITS. ALL TREES AND SHRUBS SHOWN WITH AN "X" SHALL BE REMOVED.

7. ALL WASTE EXCAVATION, CONSTRUCTION MATERIALS, DEMOLISHED STRUCTURES AND DEBRIS SHALL BE REMOVED FROM THE SITE PER KDOT STANDARDS AND SPECIFICATIONS, IF APPLICABLE.

8. ALL EXCAVATED OR OTHERWISE DISTURBED AREAS SHALL BE RETURNED TO THEIR ORIGINAL CONDITION AS NEARLY AS IS PRACTICAL. THE REPLACEMENT MATERIALS SHALL BE COMPACTED SO AS TO PREVENT SETTLEMENT. ANY PARKING OR DRIVE SURFACING, SIDEWALK OR ESTABLISHED LAWN AREAS SHALL BE REPLACED IN KIND OR AS SHOWN HEREIN.

9. PAVEMENT TO BE REMOVED AS INDICATED SHALL BE SAWCUT TO NEAT LINES OR TO EXISTING JOINTS AND HAULED FROM SITE BY THE CONTRACTOR, AT HIS EXPENSE. ANY PAVEMENT OR SIDEWALKS DAMAGED BEYOND THE ORIGINAL SAWCUT LIMITS (AS SHOWN ON THE PLAN OR DETERMINED IN THE FIELD) SHALL BE RE-SAWED TO PROVIDE AN EVEN JOINT AND REPLACED AT THE CONTRACTOR'S EXPENSE.

10. THE MAILBOX WITHIN THE CONSTRUCTION LIMITS SHALL BE REMOVED AND TEMPORARILY PLACED AT A LOCATION COORDINATED WITH THE LOCAL POST OFFICE. UPON COMPLETION OF CONSTRUCTION, THE MAILBOX SHALL BE RESET ON A PERMANENT MAILBOX SUPPORT ERECTED BY THE CONTRACTOR. MAILBOX SUPPORT SHALL CONSIST OF A SINGLE 4-INCH BY 4-INCH OR 4 1/2 INCH DIAMETER WOODEN POST. MAILBOX SUPPORTS SHALL NOT BE SET IN CONCRETE. WHEN POSSIBLE THE NEW MAILBOX SHALL BE PLACED SUCH THAT THE MAILBOX FACE WILL BE 6-INCHES FROM THE FACE OF CURB AND THE BOTTOM OF THE BOX SHALL BE 3'-6" ABOVE THE ROADWAY SURFACE. DUE TO THE LOCATION OF THE SIDEWALK BETWEEN THE BUILDING AND STREET A NEW LOCATION MAY BE NEEDED. THE LOCATION SHALL BE COORDINATED WITH THE CITY AND POST OFFICE. PAID FOR AS MAILBOX INSTALLATION.

11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AN NPDES PERMIT AND ALL OTHER PERMITTING, FOLLOWING APPLICABLE STATE AND LOCAL EROSION AND SEDIMENTATION CONTROL REQUIREMENTS AS NECESSARY.

12. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ASSURE THAT ACCESS TO THE PROPERTY AND SANTA FE STATION BE PROVIDED DURING CONSTRUCTION OF THE PROJECT.

13. THE CONTRACTOR IS RESPONSIBLE FOR ALL BARRICADES REQUIRED FOR SAFETY IN AND AROUND THE CONSTRUCTION SITE. CONTINUOUS MAINTENANCE OF TRAFFIC CONTROL DEVICES DURING THE TERM OF THIS PROJECT IS THE CONTRACTOR'S RESPONSIBILITY. ALL TRAFFIC CONTROL DEVICES SHALL MEET THE REQUIREMENTS OF THE LATEST VERSION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS."

14. ALL EXISTING STRUCTURES WITHIN THE CONSTRUCTION LIMITS SHALL BE PROTECTED BY MEANS OF FENCING AND OTHER DEVICES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT THESE STRUCTURES AND CLEAN UP ALL DEBRIS NEAR, ON, OR AROUND THESE STRUCTURES AT COMPLETION OF WORK.

15. THE CONTRACTOR SHALL VERIFY ALL DEMOLITION DIMENSIONS SHOWN PRIOR TO COMMENCING DEMOLITION.

16. THE CONTRACTOR SHALL ESTABLISH STAGING, STORAGE AND PARKING AREAS PER APPROVAL OF THE OWNER AND ARCHITECT. THE AREAS SHALL BE FENCED WITH TEMPOARY FENCING AS APPROVED BY THE OWNER.

17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING AND PROTECTING ALL SURVEY STAKES (CONTROL POINTS, REFERENCE POINTS, BENCH MARKS, PROPERTY AND OFFSET CORNERS, AND ALL OTHER ESSENTIAL HORIZONTAL AND VERTICAL SURVEY CONTROL POINTS) UNTIL CONSTRUCTION ACTIVITY IS COMPLETED. THE CONTRACTOR SHALL PAY FOR RE-STAKING ANY SURVEY STAKES THAT ARE DESTROYED.

KDOT STANDARDS AND SPECIFICATIONS SHALL GOVERN ALL WORK TO BE PERFORMED. OTHER STANDARDS AND SPECIFICATIONS, AS NEEDED, SHALL BE PER THE CITY OF LAWRENCE, KANSAS

LIST OF UTILITIES:

1-800-344-7233	DIG SAFE (ONE CALL)		
1-785-832-3130	CITY OF LAWRENCE PUBLIC WORKS ENGINEERING	DAVID CRONIN	dcronin@lawrenceks.org
1-785-832-3034	CITY OF LAWRENCE TRAFFIC ENGINEERING	DAVID WOOSLEY	dwoosley@lawrenceks.org
1-785-832-7812	CITY OF LAWRENCE WATER & WASTEWATER	ANDY ENSZ	aensz@lawrenceks.org
1-785-832-3142	CITY OF LAWRENCE STORMWATER ENGINEER	MATT BOND	mbond@lawrenceks.org
1-785-832-3190	CITY OF LAWRENCE RIGHT-OF-WAY MANAGER	JACOB BARNES	jbarnes@lawrenceks.org
1-785-832-3944	BLACK HILLS ENERGY (GAS)	CHUCK HOAG	chuck.hoag@blackhillscorp.com
1-785-865-4850	WESTAR ENERGY (ELECTRIC)	MIKE SOLIDA	mike.solida@westarenergy.com
1-785-276-5377	AT&T (TELEPHONE)	KEITH GATZEMEYER	kg4306@att.com
1-785-312-6960	WOW (CABLE TV)	HARV WAYMIRE	james.waymire@knology.com

BY	DATE
SURVEYED	
PLOTTED	
INKED	
DESIGNED	
SQUAD	

KANSAS DEPARTMENT OF TRANSPORTATION

SITE DEMOLITION NOTES

C.2.1

FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

SITE DEMOLITION NOTES

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	96	143
F.A. NO.	TEA-T037(301)			

CONTRACTOR TO SAWCUT AND REMOVE 8.4 LF OF EXISTING CURB & GUTTER 4.0 FEET FROM THE PLATFORM

CONTRACTOR TO INSTALL 228 LF OF CONSTRUCTION FENCING TO THE LIMITS SHOWN

CONTRACTOR TO REMOVE RAILROAD TIE GUARDRAIL AND TREE

CONTRACTOR TO REMOVE AND SALVAGE BRICKS TO LIMITS SHOWN FOR FUTURE REPLACEMENT

CONTRACTOR TO REMOVE EXISTING STORM BOX. USE CAUTION NOT TO DAMAGE EXISTING STORM PIPE

CONTRACTOR TO REFER TO ARCHITECTURAL DRAWINGS FOR DEMOLITION ITEMS INSIDE BUILDING

CAUTION UNDERGROUND UTILITIES

STRUCTURE TO REMAIN. CONTRACTOR TO INSTALL 57 LF OF CONSTRUCTION FENCING AROUND EXISTING STRUCTURE

CONTRACTOR TO SAWCUT AND REMOVE 32 LF OF EXISTING CURB & GUTTER TO LIMITS SHOWN

CONTRACTOR TO REMOVE EXISTING STUMP

CONTRACTOR TO REMOVE AND SALVAGE TO CITY ADA SIGN AND POST

CONTRACTOR SHALL REMOVE ALL EXISTING PAINT STRIPING AS NEEDED TO ADJUST PARKING STALLS PER LAYOUT SHEET

CONTRACTOR TO REMOVE EXISTING PARKING AREA IN IT'S ENTIRETY INCLUDING CURB & GUTTER TO LIMITS SHOWN

CONTRACTOR TO SAWCUT AND REMOVE PORTION OF EXISTING STREET 5.85' FROM BACK OF EXISTING CURB. REMOVE EXISTING CURB & GUTTER TO LIMITS SHOWN

MATCHLINE - SEE SHEET C.2.3

1" = 30'

0 30

KANSAS DEPARTMENT OF TRANSPORTATION

SITE DEMOLITION PLAN

C.2.2

SITE DEMOLITION PLAN

FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

DATE | BY | SURVEYED | PLOTTED | INKED | DESIGNED | SQUAD

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	97	143
F.A. NO.	TEA-T037(301)			

REMOVE PAVEMENT AT EXISTING DOCK AREA. DOCK WALL UNDER OUTER EDGE TO REMAIN

CONTRACTOR TO INSTALL ±360 LF OF CONSTRUCTION FENCING APPROXIMATELY 16 FEET FROM THE CENTER OF RAIL SPUR

AREA INLET #3066
TOP ELEV. = 825.94'
℄ IN (SE) 12"RCP = 822.64'
℄ OUT (NW) 12"RCP = 822.54'

GRATE-COVERED TRENCH DRAIN

℄ RAILROAD TRACKS (TYP.)

CHISELD 'X' FOUND
ELEV.=826.00

PLATFORM

OLD CONCRETE PLATFORM

ABANDONED CONCRETE LIGHT POLE BASE

16.00'

MICROWAVE POLE W/ SERVICE TO BUILDING

5.94'

10.00'

SAWCUT

9.12'

FOUND REBAR
ELEV.=824.73

CITY DATA: 18"RCP

GRAVEL

GRATE INLET #4673
TOP ELEV. = 824.15'
℄ IN (S) 15"RCP = 819.40'
℄ IN (NW) 18"VCP = 819.35'
℄ OUT (SE) 16"DIP = 819.35'

CURB INLET #4691
TOP ELEV. = 825.41'
℄ OUT (N) 15"RCP = 821.71'

INLET #4728
= 825.70'
= 822.70'

GRATE INLET #4727
TOP ELEV. = 825.07'
℄ IN (S) 15"CMP = 819.40'
℄ IN (NW) 15"CMP = 822.27'
℄ OUT (SE) 15"CMP = 819.40'

GRATE INLET #4714
TOP ELEV. = 825.48'
℄ OUT (N) 15"CMP = 822.63'

EXISTING FIRE HYDRANT

715 NEW JERSEY STREET

EDGE OF GRAVEL

GRASS

GRAVEL

LNDSCP

ASPH

730 NEW JERSEY STREET

MATCHLINE - SEE SHEET C.2.2

1" = 30'
0 30

DATE	BY
SURVEYED	
PLOTTED	
INKED	
DESIGNED	
SQUAD	

KANSAS DEPARTMENT OF TRANSPORTATION

SITE DEMOLITION PLAN

C.2.3

SITE DEMOLITION PLAN

FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	98	143
F.A. NO.	TEA-T037(301)			

LAYOUT NOTES:

1. EXISTING UTILITY INFORMATION SHOWN HEREIN IS BASED ON THE INFORMATION AVAILABLE TO THE DESIGN PROFESSIONAL AT THE TIME OF DESIGN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL UTILITY DEPTHS AND LOCATIONS PRIOR TO CONSTRUCTION. ANY DAMAGE TO UTILITIES AND INCIDENTAL DAMAGE CAUSED BY THE CONTRACTOR'S CONSTRUCTION OPERATIONS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

2. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND QUANTITIES AND SHALL RECORD "AS-BUILT" DIMENSIONS OR LOCATIONS OF ANY APPURTENANCES IF THEY DIFFER FROM THE PLANS.

3. ALL HANDICAPPED SITE FEATURES SHALL BE CONSTRUCTED TO MEET ALL STATE, LOCAL, AND ADA SPECIFICATIONS AS CURRENTLY IN EFFECT.

4. CONTACT AFFECTED OWNER(S) A MINIMUM OF 48 HOURS PRIOR TO HALTING OF UTILITY SERVICES. UNDER NO CIRCUMSTANCE SHALL ANY UTILITY SERVICE BE DISCONTINUED FOR MORE THAN ONE (1) 12-HOUR PERIOD.

5. ALL DISTURBED OFFSITE CONDITIONS SHALL BE REPLACED TO THEIR PREVIOUS CONDITION(S). ANY DAMAGE TO OR REMOVAL OF EXISTING CONDITIONS OCCURRING UPON ADJACENT PROPERTY DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THEIR PREVIOUS CONDITION(S).

6. CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE DURING CONSTRUCTION.

7. CONTRACTOR SHALL BE RESPONSIBLE FOR DIVERTING STORM SEWER RUNOFF INTO THE PROPOSED STORM SEWER SYSTEM DURING CONSTRUCTION. TEMPORARY CONNECTIONS SHALL BE MADE TO ELIMINATE FLOODING AND PONDING PRIOR TO COMPLETION OF THE PROPOSED STORM SEWER.

8. ALL METHODS AND MEANS OF CONSTRUCTION PERFORMED ON THIS PROJECT SHALL CONFORM TO THE DESIGN CRITERIA FOR KDOT AS DEPICTED IN THESE PLANS AND SPECIFICATION, IF APPLICABLE.

9. THE CONTRACTOR IS RESPONSIBLE FOR THE PROVISION OF ALL MATERIALS, TOOLS, EQUIPMENT AND LABOR NECESSARY TO CONTROL EROSION, SILTATION AND DISCHARGES OF FILL MATERIAL (SEDIMENT) INTO DOWNSTREAM SYSTEMS OR RECEIVING CHANNELS. THIS SHALL BE REQUIRED DURING ALL PHASES OF CONSTRUCTION AND UNTIL SUITABLE GROUND COVER IS ESTABLISHED FOR ALL DISTURBED AREAS. IF ANY METHOD OF CONTROL FAILS, THE CONTRACTOR SHALL NOTIFY THE CITY IMMEDIATELY, SO THAT THE CITY CAN REVIEW THE CONTRACTOR'S PROPOSED METHOD OF REPAIR.

10. ALL SAWED AND EXPANSION JOINTS IN CONCRETE PAVEMENT AND VALLEY GUTTERS SHALL BE SEALED AS PER THE CITY OF LAWRENCE STANDARD SPECIFICATIONS LOCATED ON CITY'S WEB SITE (HTTP://WWW.LAWRENCEKS.ORG/PUBLIC_WORKS/SPECIFICATIONS).

11. REFER TO ELECTRICAL ENGINEER'S PLANS FOR ALL LOCATIONS, TYPE, DESIGN AND DETAILS OF GEOTHERMAL DESIGN, SITE LIGHTING AND ALL ELECTRICAL ROUTING USED THROUGHOUT THE PROJECT.

12. REFER TO ARCHITECTURAL PLANS FOR ALL BUILDING RELATED INFORMATION.

KDOT STANDARDS AND SPECIFICATIONS SHALL GOVERN ALL WORK TO BE PERFORMED. OTHER STANDARDS AND SPECIFICATIONS, AS NEEDED, SHALL BE PER THE CITY OF LAWRENCE, KANSAS

DATE	BY

SURVEYED
PLOTTED
INKED
DESIGNED
SQUAD

KANSAS DEPARTMENT OF TRANSPORTATION

SITE LAYOUT NOTES

C.3.1

FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

SITE LAYOUT NOTES

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	99	143
F.A. NO.	TEA-T037(301)			

SIDEWALK RAMP - A
SIDEWALK CONSTRUCTION (6")
4.0 SY (SEE SHEET C.9.2 FOR DETAILS)

AREA (INLET)(3'-3"x2'-3")(PRECAST), (AI-2)
(SEE SHEET C.8.3 FOR DETAIL)

SIDEWALK - E (SPECIAL) (TURNDOWN CURB AND WALK) 57.4 SY
(SEE SHEET C.8.1 FOR DETAIL)

SIGN POST (1-3/4" PERFORATED SQUARE STEEEL TUBE) (SEE SHEET C.8.2 FOR DETAIL)

SIDEWALK - D
SIDEWALK CONSTRUCTION (4")
18.4 SY (33 LF x 5' WIDE)

SEE SHEET C.9.2 FOR ALL CITY STANDARD SIDEWALK DETAILS AND INFORMATION (TYP.)

SIDEWALK - A
SIDEWALK CONSTRUCTION (4")
100.0 SY (180 LF x 5' WIDE)

SIDEWALK - B
SIDEWALK CONSTRUCTION (4")
22.8 SY (41 LF x 5' WIDE)

CIRCULAR WALK AROUND EXISTING CIRCULAR STRUCTURE (SPECIAL)
(SEE SHEET C.8.1 FOR DETAIL)

SIDEWALK - C
SIDEWALK CONSTRUCTION (4")
18.9 SY (34 LF x 5' WIDE)

SIDEWALK RAMP - D (SPECIAL)
(SEE SHEET C.8.2 FOR DETAIL)

SIDEWALK RAMP - B
SIDEWALK CONSTRUCTION (6")
6.0 SY (SEE SHEET C.9.2 FOR DETAILS)

CURB & GUTTER COMBINED (AE) - 7.3 LF (SEE SHEET C.9.1 FOR DETAIL - TYPE CG-1)

SIDEWALK RAMP - C
SIDEWALK CONSTRUCTION (6")
4.0 SY (SEE SHEET C.9.2 FOR DETAILS)

PAVING BRICK (SPECIAL)
RE-LAY EXISTING SALVAGED BRICK,
24.6 SY
(SEE SHEET C.8.1 FOR DETAIL)

AREA (INLET)(3'-3"x2'-3")(PRECAST), (AI-1)
INSTALL STORM SEWER (12"x54')(PVCP)(W)
(SEE SHEET C.8.3 FOR DETAIL)

PAVEMENT MARKING SYMBOL
(PAINT)(WHITE)(HANDICAP)

REFER TO ARCHITECTURAL PLANS FOR ALL BUILDING RELATED INFORMATION

CONCRETE STEP AT DOCK (SPECIAL) (SEE SHEET C.8.5 FOR DETAIL)

SIDEWALK CONSTRUCTION (4") 300.5 SY (SEE SHEET C.9.2 FOR DETAILS)

STEPS, RAMP AND HANDRAILS (SPECIAL) (SEE SHEETS C.8.4 & C.8.5 FOR DETAILS)

HMA PAVEMENT (6")
110 SY

CURB & GUTTER COMBINED (AE) - 150.0 LF (SEE SHEET C.9.1 FOR DETAIL - TYPE CG-1)

GEOTHERMAL WELL LOCATIONS PER MEP PLANS (TYPICAL)

10 LF OF CURB TRANSITION (SPECIAL)
(SEE SHEET C.8.2 FOR DETAIL)

PAVING BRICK (SPECIAL)
RE-LAY EXISTING SALVAGED BRICK,
20.3 SY
(SEE SHEET C.8.1 FOR DETAIL)

CONCRETE VALLEY GUTTER (SPECIAL)
81.2 LF (SEE SHEET C.8.1 FOR DETAIL)

PAVEMENT MARKING
(PAINT)(WHITE)(4")
TWO COATS

INLET (CURB)(SETBACK)(8'x3'), (CI-1)
INSTALL STORM SEWER
(15"x112')(PVCP)(N)

SIDEWALK - F
SIDEWALK CONSTRUCTION (4")
52.7 SY (47.5 LF x 10' WIDE)

MATCHLINE - SEE SHEET C.3.3

1" = 30'
0 30

KANSAS DEPARTMENT OF TRANSPORTATION

SITE LAYOUT PLAN
C.3.2

FHWA APPROVAL	XX-XX-XX	APP'D	XXX
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

DATE
BY
SURVEYED
PLOTTED
INKED
DESIGNED
SQUAD

SITE LAYOUT PLAN

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	100	143
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DATE	BY

SURVEYED
PLOTTED
INKED
DESIGNED
SQUAD

CONCRETE PAVEMENT (6") 51.3 SY (SEE SHEET C.8.5 FOR DETAIL)

BICYCLE RACK (SPECIAL) (SEE SHEET C.8.2 FOR DETAIL)

CONCRETE PAVEMENT (7") 35.5 SY (SEE SHEET C.8.1 FOR DETAIL)

SIDEWALK CONSTRUCTION (4") 11.3 SY (SEE SHEET C.9.2 FOR DETAILS)

12 LF OF CURB TRANSITION (SPECIAL) (TYPE CG-3) (SEE SHEET C.8.2 FOR DETAIL)

GEOTHERMAL WELL LOCATIONS PER MEP PLANS (TYPICAL)

CURB & GUTTER (SPECIAL) - 21.5 LF (SEE SHEET C.9.1 FOR DETAIL - TYPE CG-3)

10 LF OF CURB TRANSITION (SPECIAL) (SEE SHEET C.8.2 FOR DETAIL)

FENCING (CHAIN LINK)(6'-0") 344 LF

AREA INLET #3066
TOP ELEV. = 825.94'
℄ IN (SE) 12"RCP = 822.64'
℄ OUT (NW) 12"RCP = 822.54'

GRATE INLET #4673
TOP ELEV. = 824.15'
℄ IN (S) 15"RCP = 819.40'
℄ IN (NW) 18"VCP = 819.35'
℄ OUT (SE) 16"DIR = 819.35'

CURB INLET #4691
TOP ELEV. = 825.41'
℄ OUT (N) 15"RCP = 821.71'

GRATE INLET #4727
TOP ELEV. = 825.07'
℄ IN (S) 15"CMP = 819.40'
℄ IN (NW) 15"CMP = 822.27'
℄ OUT (SE) 15"CMP = 819.40'

GRATE INLET #4714
TOP ELEV. = 825.48'
℄ OUT (N) 15"CMP = 822.63'

GRATE-COVERED TRENCH DRAIN
℄ RAILROAD TRACKS (TYP.)
PLATFORM
OLD CONCRETE PLATFORM
ABANDONED CONCRETE LIGHT POLE BASE
MICROWAVE POLE W/ SERVICE TO
EXISTING FIRE HYDRANT
715 NEW JERSEY STREET
730 NEW JERSEY STREET
GRAVEL
CITY DATA: 18"RCP
EDGE OF GRAVEL
GRASS
LNDSCP
ASPH
824
825
826

MATCHLINE - SEE SHEET C.3.2

REFER TO SHEET C3.1 FOR LAYOUT NOTES

1" = 30'
0 30

SITE LAYOUT PLAN

KANSAS DEPARTMENT OF TRANSPORTATION

SITE LAYOUT PLAN
C.3.3

FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	101	143
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14.06'
0+00
N 244641.978
E 2099549.971
0+29.26
10.05' LT.
0+37.66
10.03' LT.
0+40.61
15.00' LT.
0+38.21
20.00' LT.
5.00' SIDEWALK
1+00
Az. 178°12'13"
246.39'
BENCHMARK
ELEV.=826.00
1+21.42
20.00' LT.
1+49.17
52.74' LT.
1+58.95
65.00' LT.
1+58.95
20.00' LT.
1+74.18
22.66' LT.
2+00
2+16.41
10.65' LT.
2+17.17
26.04' LT.
R45.00'
1+88.32
27.74' LT.
5.00' SIDEWALK
R10.21'
R18.21'
8.00'
+2.00
1+78.12
55.13' LT.
1+48.29
147.27' LT.
1+52.19
147.22' LT.
1+51.04
141.52' LT.
1+54.27
145.33' LT.
1+51.54
151.07' LT.
1+55.96
147.30' LT.
1+56.19
143.70' LT.
3+58.26
39.38' LT.
3+27.06
73.45' LT.
3+52.00
52.07' LT.
5.00' SIDEWALK
3+52.41
32.54' LT.
3+35.28
32.56' LT.
3+29.62
25.96' LT.
3+19.97
25.96' LT.
2+06.61
30.99' LT.
3+19.97
15.96' LT.
2+77.60
29.05' LT.
3+05.87
25.96' LT.
3+00
2+77.59
19.08' LT.
2+78.54
11.96' LT.
2+72.59
19.08' LT.
2+71.21
13.68' LT.
2+65.11
17.35' LT.
STA. 2+46.39
N 244395.706
E 2099557.695
80.63' LT.
3+88.13
78.04' LT.
2+11.86
148.81' LT.
2+20.40
141.58' LT.
2+20.00
149.59' LT.
3+88.51
33.25' LT.
3+65.16
33.48' LT.
2+19.67
135.07' LT.
3+98.52
32.00' LT.
2+32.63
138.92' LT.
3+90.00
4.39' LT.
R22.00'
4+00
3+94.98
9.41' LT.
3+77.26
15.20' LT.
3+58.74
25.98' LT.
3+39.07
29.31' LT.
3+35.77
25.46' LT.
3+28.06
16.46' LT.
3+18.39
11.96' LT.
3+09.33
15.96' LT.
2+95.33
12.02' LT.
Az. 87°53'17"
128.48'
STA. 3+74.86
N 244400.441
E 2099686.083
409 E 7TH
MATCHLINE - SEE SHEET C.3.5
1" = 20'
0
20

DATE
BY
SURVEYED
PLOTTED
INKED
DESIGNED
SQUAD

KANSAS DEPARTMENT OF TRANSPORTATION

SITE LAYOUT PLAN

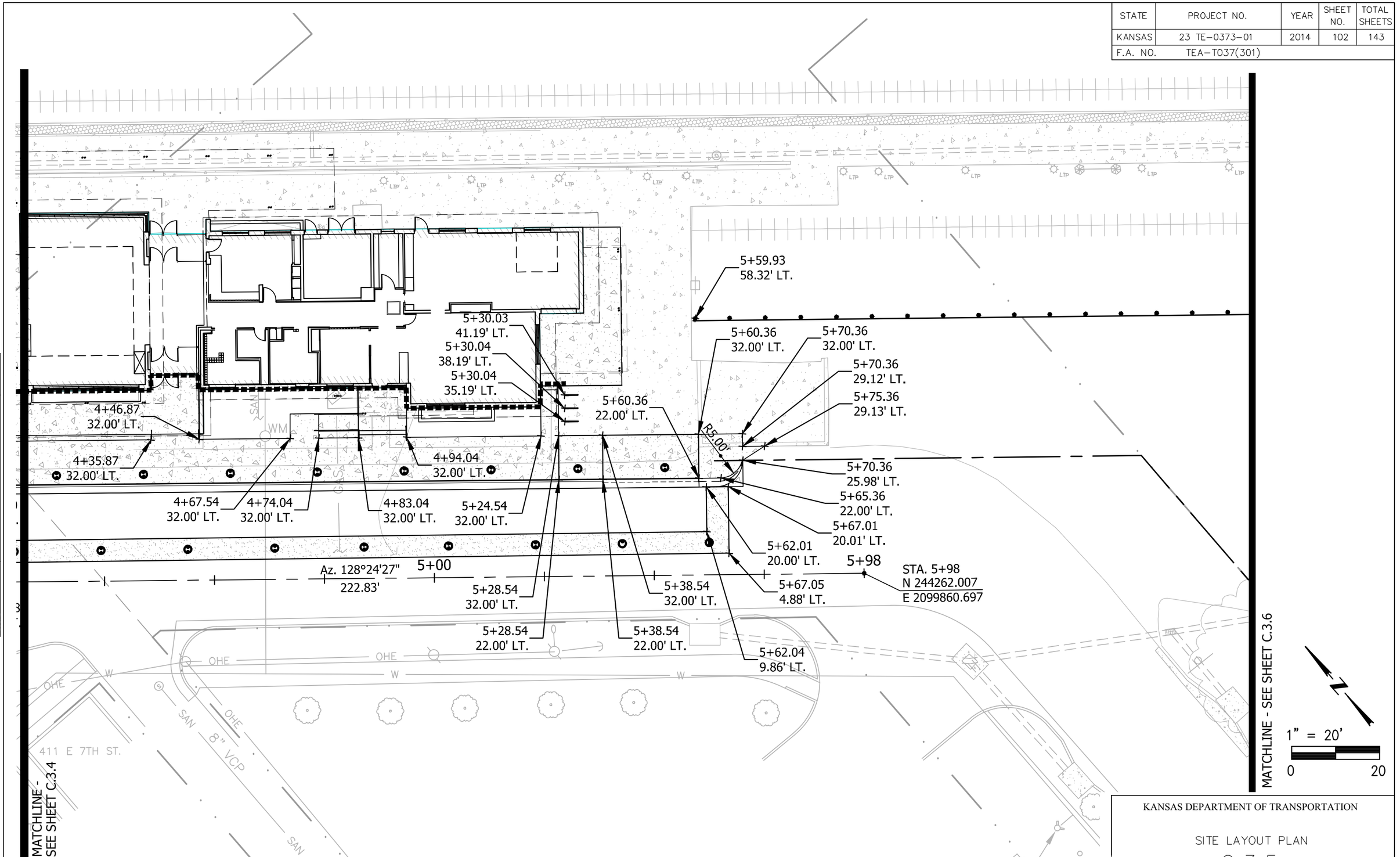
C.3.4

FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

SITE LAYOUT PLAN

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	102	143
F.A. NO.	TEA-T037(301)			

DATE
BY
SURVEYED
PLOTTED
INKED
DESIGNED
SQUAD



KANSAS DEPARTMENT OF TRANSPORTATION

SITE LAYOUT PLAN

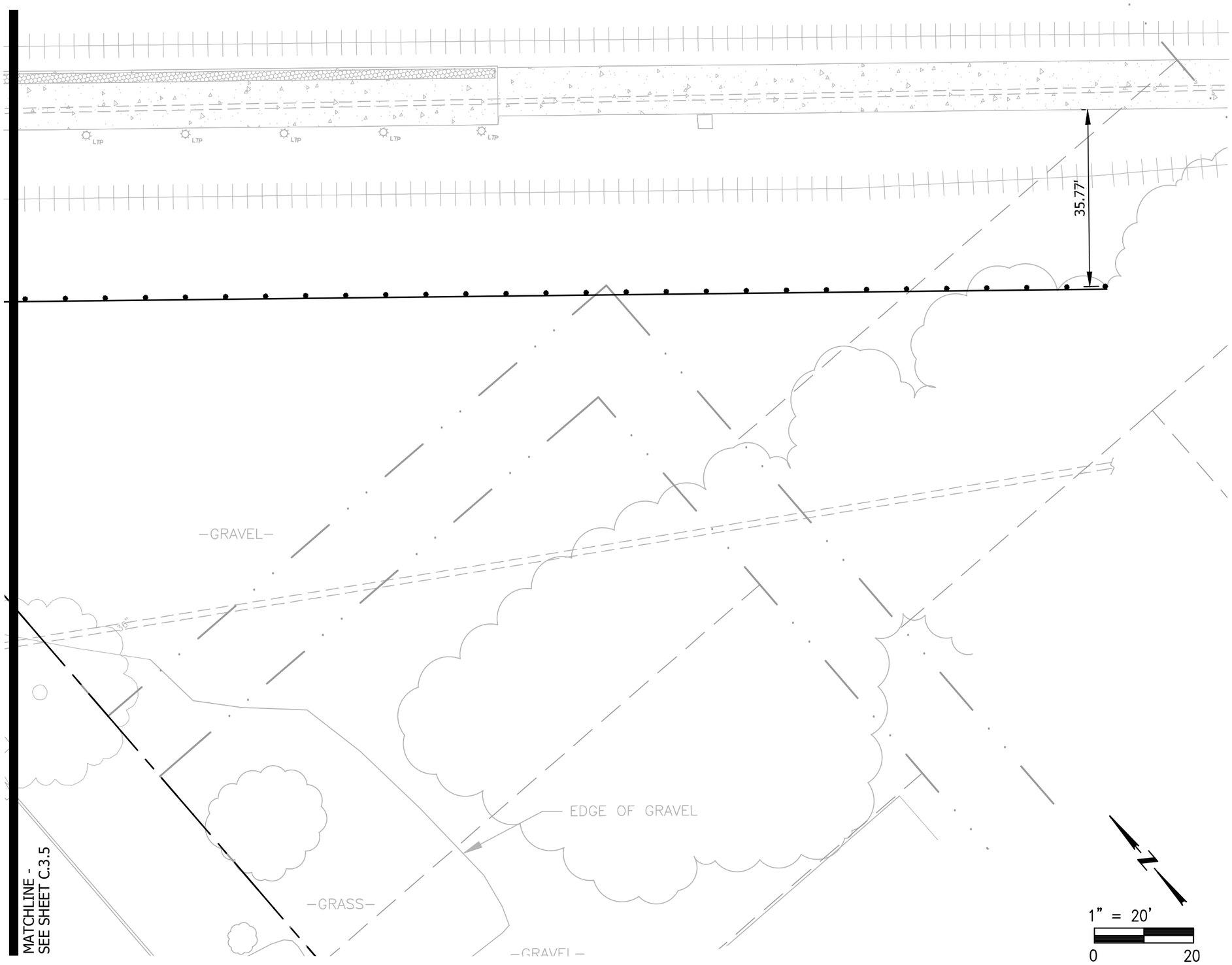
C.3.5

SITE LAYOUT PLAN

FHWA APPROVAL XX-XX-XX		APP'D	XXX
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	103	143
F.A. NO.	TEA-T037(301)			

DATE	BY
SURVEYED	
PLOTTED	
INKED	
DESIGNED	
SQUAD	



SITE LAYOUT PLAN

KANSAS DEPARTMENT OF TRANSPORTATION

SITE LAYOUT PLAN

C.3.6

FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	104	143
F.A. NO.	TEA-T037(301)			

GRADING NOTES:

1. ALL QUANTITIES SHALL BE DOUBLE CHECKED BY THE CONTRACTOR PRIOR TO ORDERING MATERIALS.
2. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS REQUIRED FOR THE SITE GRADING.
3. ALL AREAS DISTURBED DURING THE PROGRESS OF THIS PROJECT SHALL BE FINISHED WITH 6" (MIN.) OF TOPSOIL AND GRADED/RESTORED TO EXISTING CONDITIONS PRIOR TO DISTURBANCE.
4. ALL AREAS SHALL SLOPE AWAY FROM BUILDING(S).
5. ALL GROUND SURFACES SHALL VARY UNIFORMLY BETWEEN INDICATED ELEVATIONS.
6. GRADING PLAN REFLECTS TOP OF TURF OR PAVEMENT ELEVATION UNLESS OTHERWISE NOTED.
7. CONTRACTOR SHALL PROVIDE AND MAINTAIN POSITIVE DRAINAGE DURING ALL PHASES OF CONSTRUCTION.
8. EXISTING UTILITIES AS SHOWN ARE APPROXIMATE LOCATIONS ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO THE START OF CONSTRUCTION WORK. ANY DAMAGE TO EXISTING STRUCTURES, UTILITIES, FENCES, AND/OR INCIDENTALS NOT DESIGNATED FOR REMOVAL SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
9. THE CONTRACTOR IS RESPONSIBLE FOR THE PROVISION OF ALL MATERIALS, TOOLS, EQUIPMENT AND LABOR NECESSARY TO CONTROL EROSION, SILTATION AND DISCHARGES OF FILL MATERIAL (SEDIMENT) INTO DOWNSTREAM SYSTEMS OR RECEIVING CHANNELS. THIS SHALL BE REQUIRED DURING ALL PHASES OF CONSTRUCTION AND UNTIL SUITABLE GROUND COVER IS ESTABLISHED FOR ALL DISTURBED AREAS. IF ANY METHOD OF CONTROL FAILS, THE CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY, SO THAT THE OWNER OR HIS AGENT CAN REVIEW THE CONTRACTOR'S PROPOSED METHOD OF REPAIR. REFER TO EROSION CONTROL SHEET FOR MORE NOTES AND INFORMATION.
10. SILT FENCES REQUIRE MAINTENANCE TO PRESERVE THEIR EFFECTIVENESS. ALL SILT FENCES SHALL BE INSPECTED IMMEDIATELY AFTER EACH HEAVY RAINSTORM AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY. WHEN SEDIMENT DEPOSITS REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE SILT FENCE, THE SEDIMENT SHALL BE REMOVED OR A SECOND SILT FENCE SHALL BE INSTALLED.
11. THE CONTRACTOR SHALL NOT PERFORM FINAL GRADING UNTIL ALL UTILITY INSTALLATIONS ARE COMPLETE.
12. ALL STORM SEWER STRUCTURES ARE TO BE INSTALLED PER KDOT STANDARDS AND SPECIFICATIONS, IF APPLICABLE.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING AND PROTECTING ALL SURVEY STAKES (CONSTRUCTION STAKES, CONTROL POINTS, REFERENCE POINTS, BENCH MARKS, PROPERTY AND OFFSET CORNERS, AND ALL OTHER ESSENTIAL HORIZONTAL AND VERTICAL SURVEY CONTROL POINTS) UNTIL CONSTRUCTION ACTIVITY IS COMPLETED. THE CONTRACTOR SHALL PAY FOR RE-STAKING ANY SURVEY STAKES THAT ARE DESTROYED.

DATE	BY
	SURVEYED
	PLOTTED
	INKED
	DESIGNED
	SQUAD

KDOT STANDARDS AND SPECIFICATIONS SHALL GOVERN ALL WORK TO BE PERFORMED. OTHER STANDARDS AND SPECIFICATIONS, AS NEEDED, SHALL BE PER THE CITY OF LAWRENCE, KANSAS

KANSAS DEPARTMENT OF TRANSPORTATION

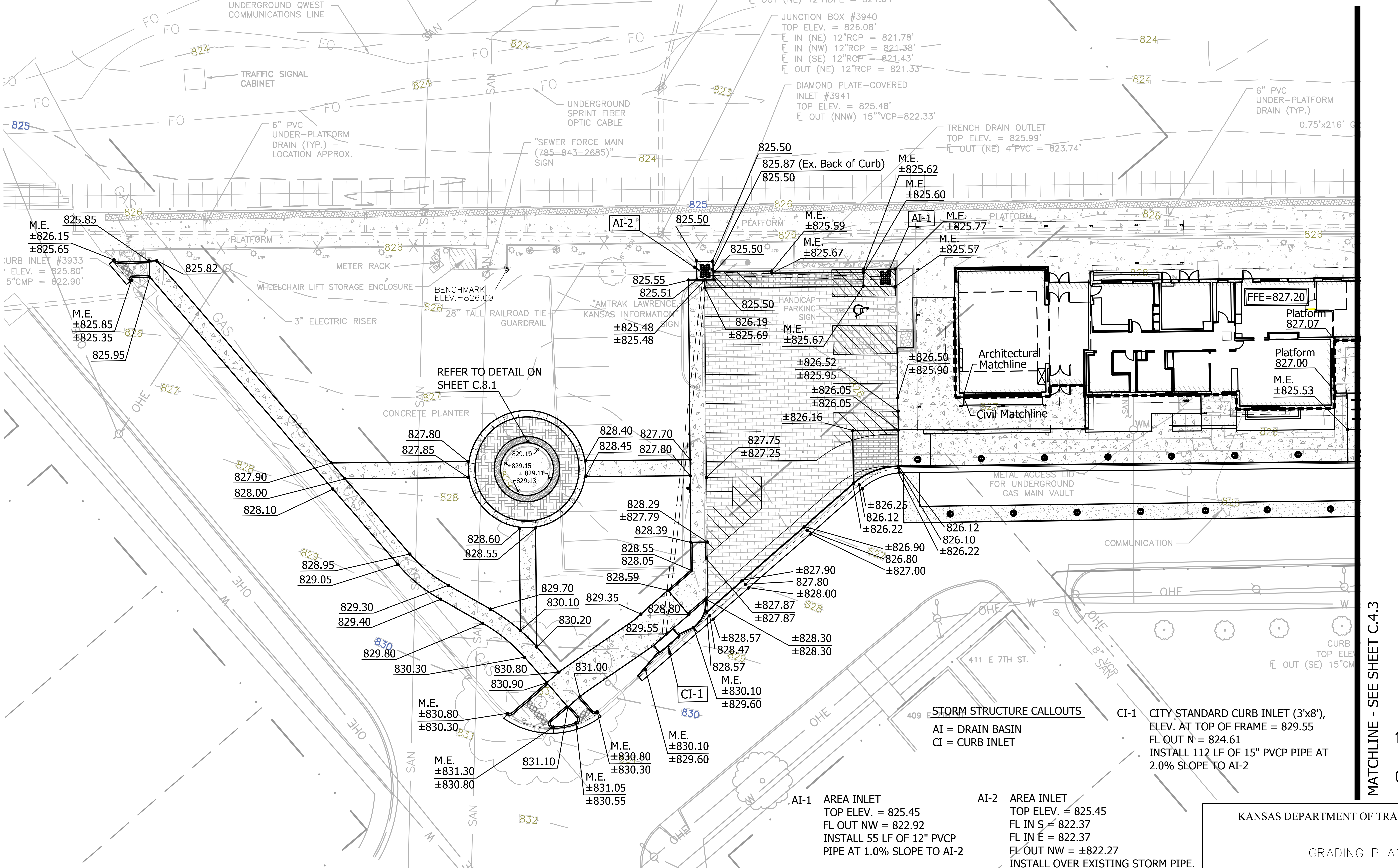
GRADING NOTES

C.4.1

GRADING NOTES

FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	105	143
F.A. NO.	TEA-T037(301)			



STORM STRUCTURE CALLOUTS

AI = DRAIN BASIN
CI = CURB INLET

CI-1 CITY STANDARD CURB INLET (3'x8'),
ELEV. AT TOP OF FRAME = 829.55
FL OUT N = 824.61
INSTALL 112 LF OF 15" PVCP PIPE AT 2.0% SLOPE TO AI-2

AI-1 AREA INLET
TOP ELEV. = 825.45
FL OUT NW = 822.92
INSTALL 55 LF OF 12" PVCP PIPE AT 1.0% SLOPE TO AI-2

AI-2 AREA INLET
TOP ELEV. = 825.45
FL IN S = 822.37
FL IN E = 822.37
FL OUT NW = ±822.27
INSTALL OVER EXISTING STORM PIPE.
FIELD VERIFY TYPE AND SIZE

KANSAS DEPARTMENT OF TRANSPORTATION

GRADING PLAN
C.4.2

FHWA APPROVAL XX-XX-XX		APP'D	XXX
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

DATE	BY	SURVEYED	PLOTTED	INKED	DESIGNED	SQUAD

GRADING PLAN

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	106	143
F.A. NO.	TEA-T037(301)			

DATE
BY
SURVEYED
PLOTTED
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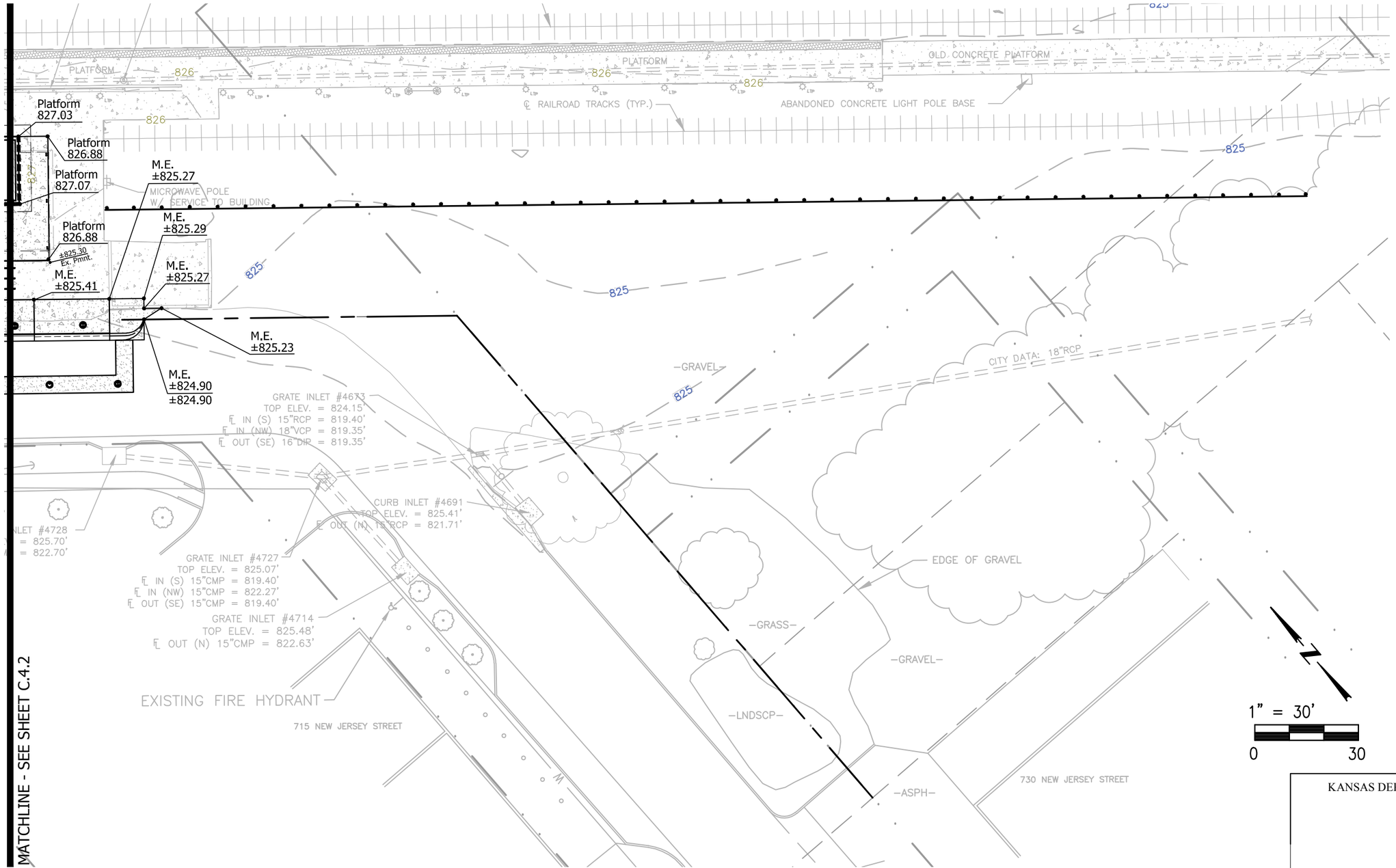
DESIGNED
SQUAD



GRADING PLAN

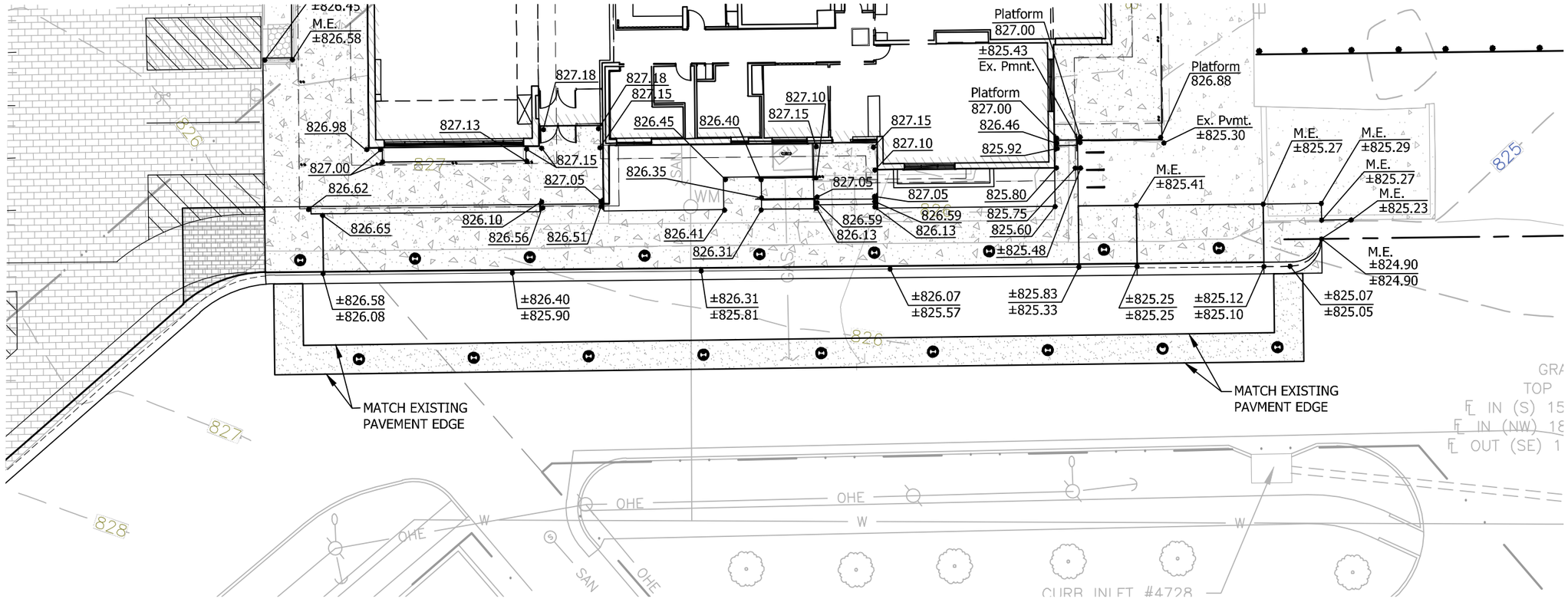
KANSAS DEPARTMENT OF TRANSPORTATION

GRADING PLAN

C.4.3

FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	107	143
F.A. NO.	TEA-T037(301)			



ENLARGED AREA - SOUTH SIDE OF BUILDING

1" = 20'

0 20

DATE	BY
SURVEYED	
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INKED	
DESIGNED	
SQUAD	

KANSAS DEPARTMENT OF TRANSPORTATION

GRADING PLAN

C.4.4

FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

GRADING PLAN

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	108	143
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EROSION CONTROL NOTES:

1. THE CONTRACTOR SHALL BE REQUIRED TO SUBMIT A NOTICE OF INTENT (NOI) FOR THIS PROJECT PRIOR TO THE COMMENCEMENT OF PROJECT ACTIVITIES. THE CONTRACTOR SHALL KEEP A WRITTEN LOG OF WHEN CONSTRUCTION ACTIVITIES BEGIN, EROSION AND SEDIMENT CONTROLS ARE INSTALLED, INSPECTED AND REPAIRED. COPIES OF LOG SHALL BE FURNISHED TO THE ENGINEER. IF PERMIT REQUIRES BARTLETT & WEST'S NAME ANYWHERE ON THE DOCUMENT IT MUST BE SUBMITTED TO THE STAMPING ENGINEER OF RECORD FOR REVIEW PRIOR TO SUBMITTAL TO THE REGULATING AUTHORITY.

2. THE CONTRACTOR SHALL MONITOR EROSION AND SEDIMENT CONTROL MEASURES THROUGHOUT THE PROJECT. THIS PLAN MAY BE UPDATED AS CONSTRUCTION PROGRESSES WITH APPROVAL OF ENGINEER.

3. TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES INSTALLED AS PART OF THIS PLAN SHALL NOT BE REMOVED FOLLOWING CONSTRUCTION UNTIL SLOPES ARE STABILIZED TO A NON-EROSIVE STATE WITH ESTABLISHED GRASS OR AS DIRECTED BY THE ENGINEER.

4. IMMEDIATELY AFTER MOBILIZATION AND PRIOR TO STARTING ANY SOIL DISTURBING ACTIVITIES, THE CONTRACTOR SHALL INSTALL ANY PERIMETER EROSION AND SEDIMENT CONTROL MEASURES, GRAVEL CONSTRUCTION ENTRANCE(S) AND TEMPORARY SEDIMENT BASIN(S). IT IS RECOGNIZED THAT SOME SITE CLEARING AND PREPARATION MAY BY REQUIRED TO PROPERLY INSTALL SUCH MEASURES.

5. THE RECOMMENDED SEQUENCE OF CONSTRUCTION ACTIVITIES AND OF THE INSTALLATION AND REMOVAL OF EROSION AND SEDIMENT CONTROL MEASURES IS AS FOLLOWS: ANY PERIMETER CONTROL MEASURES (SILT FENCE, TEMPORARY SEDIMENT BASIN) INCLUDING AREAS DRAINING TO A DRAINAGE WAY SUCH AS A STREAM, GRAVEL CONSTRUCTION ENTRANCE(S), CONSTRUCTION OF SANITARY SEWERS, STORM SEWERS, INLET PROTECTION, DITCH CHECKS, STREETS, FINAL GRADING, SEEDING, FERTILIZING AND MULCHING ON ALL SLOPES AND DISTURBED AREAS, INDIVIDUAL SITE CONTROL MEASURES, REMOVAL OF TEMPORARY PRACTICES, REMOVAL OF PERIMETER CONTROLS AND SITE CLEANUP.

6. PERIMETER SILT FENCE, CONSTRUCTION ENTRANCE(S) AND TEMPORARY SEDIMENT BASIN(S) SHALL BE CONSTRUCTED IN ACCORDANCE WITH DETAILS SHOWN HEREON. INSTALL SILT FENCE OR BALES WHERE REPRESENTED ON PLAN AS DITCH CHECKS AND SLOPE CONTROL, AROUND INLETS, ALONG ROADWAYS, AREAS DRAINING TO DRAINAGE WAYS SUCH AS A STREAM AND OTHER LOCATIONS AS NEEDED TO PREVENT SEDIMENT FROM LEAVING THE SITE. MEASURES WILL BE KEPT IN PLACE UNTIL GRASS IS ESTABLISHED.

7. REINFORCED SILT FENCE INLET PROTECTION AT EACH INLET SHALL BE INSTALLED AFTER COMPLETION OF INLETS AND DITCHES. PROTECTION SHALL REMAIN IN PLACE AT INLETS UNTIL PAVEMENT IS CONSTRUCTED AND IN DITCHES UNTIL PERMANENT GRASS STAND IS ESTABLISHED. ROCK BAGS SHALL BE INSTALLED AFTER CURB AND GUTTER IS INSTALLED. IN ADDITION, SILT FENCE WILL BE PLACED ALONG STREETS AS NEEDED TO REDUCE SEDIMENT IN THE STREET.

8. ALL EROSION CONTROL MEASURES SHALL BE INSPECTED AND MAINTAINED BY THE GENERAL CONTRACTOR NOT LESS THAN WEEKLY OR WITHIN 24 HOURS AFTER A RAINFALL EVENT OF 0.5 INCHES OR MORE. MAINTENANCE SHALL INCLUDE BUT NOT LIMITED TO SEDIMENT REMOVAL, SILT FENCE REPAIR AND/OR REPLACEMENT.

9. CONSTRUCTION ENTRANCES SHALL BE MAINTAINED BY THE GENERAL CONTRACTOR IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS, PRIVATE DRIVE AND PAVED STREETS. THIS MAY INCLUDE PERIODIC TOP DRESSING WITH ADDITIONAL CRUSHED STONE AS CONDITIONS WARRANT. REPAIR OF ENTRANCES, CLEANING ON A DAILY BASIS OF RIGHT-OF-WAYS AND PAVED STREETS THAT HAVE BEEN SOILED BY CONSTRUCTION ACTIVITIES SHALL BE THE GENERAL CONTRACTOR'S RESPONSIBILITY.

10. THE CONTRACTOR SHALL NOTIFY EACH SUB-CONTRACTOR OR ENTITY (INCLUDING UTILITY CREWS AND CITY EMPLOYEES OR THEIR AGENTS) THAT WILL BE PERFORMING WORK AT THE SITE OF THE EROSION CONTROL PLAN AND WHAT ACTIONS OR PRECAUTIONS SHALL BE TAKEN TO MINIMIZE THE POTENTIAL FOR SOIL EROSION.

11. DURING ALL SOIL DISTURBING ACTIVITIES, THE GENERAL CONTRACTOR WILL TAKE APPROPRIATE STEPS USING ACCEPTED CONSTRUCTION METHODS TO MINIMIZE THE TIME OF EXPOSURE OF UNPROTECTED SOIL AND OTHER CONSTRUCTION MATERIALS TO RAINFALL.

12. NO GROUND SHALL BE LEFT OPEN FOR MORE THAN 7 DAYS OF NON-ACTIVITY WITHOUT BEING MULCHED AND/OR SEEDED.

13. SOIL STOCKPILED FOR MORE THAN 7 DAYS SHALL HAVE SILT FENCE PLACED ON THE DOWNHILL SLOPES TO TRAP SEDIMENT.

14. WHENEVER SOIL, ROCK, VEGETATION OR OTHER MATERIALS ARE EXPORTED FOR PLACEMENT IN AREAS OFF OF THE CONSTRUCTION SITE COVERED IN THIS PLAN, THE GENERAL CONTRACTOR IS RESPONSIBLE FOR DETERMINING THAT EPA STORM WATER PERMITTING REQUIREMENTS ARE MET. PRIOR TO THE REMOVAL OF ANY MATERIALS FROM THE SITE THE GENERAL CONTRACTOR WILL FURNISH THE ENGINEER WITH WRITTEN AGREEMENT, SIGNED BY EACH LANDOWNER WHO WILL RECEIVE EXPORTED MATERIALS, STATING THAT THEY ACCEPT THE MATERIAL AND THAT RECEIVING SITE IS PROPERLY PERMITTED, WHEN REQUIRED.

STORM WATER MANAGEMENT - Sediment Control

1. THIS PLAN OUTLINES STORM WATER MANAGEMENT AND SEDIMENT AND EROSION CONTROL PRACTICES TO BE FOLLOWED BY THE CONTRACTOR DURING ALL PHASES OF CONSTRUCTION OF THE PROJECT. THE CONTRACTOR WILL BE RESPONSIBLE TO PREVENT SOIL OR SEDIMENT LOSS FROM THE CONSTRUCTION SITE AND CANNOT LEAVE THE SITE UNTIL ALL PERMANENT EROSION CONTROL, SEDIMENT CONTROL AND STORM WATER MANAGEMENT PRACTICES ARE IN PLACE, INSPECTED AND HAVE BEEN FOUND TO BE SATISFACTORY, AND UNTIL ALL TEMPORARY PRACTICES HAVE BEEN PROPERLY REMOVED.

2. THIS PROJECT HAS BEEN DESIGNED TO PROVIDE POSITIVE POST-CONSTRUCTION CONTROL OF EXCESS STORM WATER GENERATED ON THE SITE THROUGH THE USE OF CURBS, GUTTERS, PIPING, STORM WATER BASINS (WHEN DESIGNED) AND STORM WATER OUTLETS. DURING THE COURSE OF CONSTRUCTION, THE CONTRACTOR SHALL INSTALL AND MAINTAIN STORM WATER MANAGEMENT STRUCTURES IN A MANNER TO MAXIMIZE STORM WATER CONTROL.

3. THIS PROJECT IS DESIGNED TO MINIMIZE OFF-SITE EFFECT OF SOIL EROSION AND RESULTING SEDIMENT LOSS THROUGH THE USE OF PROPER CONSTRUCTION TECHNIQUES, INCLUDING INSTALLING BOTH TEMPORARY AND PERMANENT MANAGEMENT PRACTICES. ALL SOIL DISTURBING ACTIVITIES PERFORMED BY THE CONTRACTOR SHALL BE ACCOMPLISHED IN SUCH A MANNER AS TO PREVENT THE LOSS OF SEDIMENT IN STORM WATER AND TRACKING OF SOIL FROM VEHICLE TRAFFIC FROM THE CONSTRUCTION SITE.

KDOT STANDARDS AND SPECIFICATIONS SHALL GOVERN ALL WORK TO BE PERFORMED. OTHER STANDARDS AND SPECIFICATIONS, AS NEEDED, SHALL BE PER THE CITY OF LAWRENCE, KANSAS

BY	DATE
SURVEYED	
PLOTTED	
INKED	
DESIGNED	
SQUAD	

EROSION CONTROL NOTES

KANSAS DEPARTMENT OF TRANSPORTATION

EROSION CONTROL NOTES

C.5.1

FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	109	143
F.A. NO.	TEA-T037(301)			

INSTALL SILT FENCE PROTECTION, TYPICAL. REFER TO SHEET C.10.6 FOR NOTES AND DETAILS

INSTALL LOG/FILTER SOCK AREA INLET PROTECTION. REFER TO SHEET C.10.5 FOR DETAIL

INSTALL CURB INLET PROTECTION. REFER TO SHEET C.10.5 FOR DETAIL

TRAFFIC SIGNAL CABINET

BENCHMARK ELEV.=826.00

LEASE AREA
60,927 S.F.
1.399 AC.±

411 E 7TH ST.

409 E 7TH ST.

1" = 30'

0 30

DATE	BY
SURVEYED	
PLOTTED	
INKED	
DESIGNED	
SQUAD	

KANSAS DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN

C.5.2

EROSION CONTROL PLAN

FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	110	143
F.A. NO.	TEA-T037(301)			

LANDSCAPE NOTES:

1. GENERAL CONTRACTOR SHALL GUARANTEE ALL PLANT MATERIAL FOR A PERIOD OF ONE (1) YEAR FROM DATE OF PROJECT SUBSTANTIAL COMPLETION.
2. ALL PLANT MATERIALS SHALL MEET MINIMUM REQUIREMENTS SHOWN IN THE "AMERICAN STANDARDS FOR NURSERY STOCK" (ANSI Z60.1-1990).
3. EACH TREE AND SHRUB SHALL BE SECURELY LABELED WITH A WATERPROOF TAG INDICATING BOTANICAL NAME AND COMMON NAME FOR DELIVERY TO SITE.
4. NO PLANT MATERIAL SHALL BE SUBSTITUTED WITH OUT THE APPROVAL OF THE OWNER. ALL PLANTING LOCATIONS FOR TREES AND SHRUBS SHALL BE FLAGGED BY THE CONTRACTOR AND APPROVED BY THE OWNER, PRIOR TO INSTALLATION.
5. ALL DISCREPANCIES AND/OR FIELD CHANGES SHALL BE REPORTED TO THE OWNER FOR APPROVAL PRIOR TO IMPLEMENTATION. WHEN CONDITIONS DETRIMENTAL TO PLANT GROWTH ARE ENCOUNTERED, SUCH AS RUBBLE FILL, ADVERSE DRAINAGE CONDITIONS OR OBSTRUCTIONS, LANDSCAPE CONTRACTOR SHALL NOTIFY THE OWNER BEFORE PLANTING.
6. THE GENERAL CONTRACTOR SHALL VERIFY LOCATION OF AND PROTECT ALL UTILITIES AND STRUCTURES. DAMAGE TO UTILITIES AND STRUCTURES SHALL BE REPAIRED BY THE CONTRACTOR.
7. THE LANDSCAPE CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER CONTRACTORS ON SITE THROUGHOUT THE CONSTRUCTION PROCESS.
8. ALL SHRUB AND TREE PLANTING AREAS SHALL BE EXCAVATED AND BACK-FILLED WITH PLANT MIX. PROVIDE FERTILIZER WITH NOT LESS THAN 5% TOTAL NITROGEN, 10% AVAILABLE PHOSPHORIC ACID AND 5% SOLUBLE POTASH. DISCARD SUBSOIL REMOVED FROM PLANTING AREA EXCAVATION; DO NOT MIX WITH PLANT MIX OR USE AS BACK-FILL. PREPARE PLANTING AREAS AND INSTALL PLANTS COMPLETELY, PRIOR TO SEEDING.
9. PLANT MIX SHALL CONSIST OF TOPSOIL COMPLETELY FREE OF DEBRIS, ROCK IN EXCESS OF 1" IN DIAMETER, STICKS AND CLAY. MIX ONE PART COMPOSTED STABLE MANURE AND THREE PARTS TOPSOIL WITH FERTILIZER AS SPECIFIED ABOVE.
10. ALL SHRUBS SHALL BE INSTALLED IN PROPOSED PLANTING BEDS AND COVERED WITH SHREDDED BARK MULCH OR ACCEPTABLE MATERIAL APPROVED BY THE OWNER.
11. ALL PLANTED SURFACES SHALL RECEIVE EMULSION TYPE, FILM FORMING, ANTI-DESSICANT AGENT DESIGNED TO PERMIT TRANSPIRATION, BUT RETARD EXCESSIVE LOSS OF MOISTURE FROM PLANTS. ANTI-DESSICANT TO BE DELIVERED IN MANUFACTURER'S FULLY IDENTIFIED CONTAINERS AND MIXED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. APPLY PRIOR TO APPLICATION OF MULCH.
12. ALL DISTURBED AREAS NOT DESIGNATED AS PAVEMENT OR PLANTING BEDS SHALL BE SODDED WITH TURF TYPE TALL FESCUE BLEND OR APPROVED EQUAL AT THE DIRECTION OF THE OWNER. ALL TURF AREAS SHALL CONSIST OF A MINIMUM 6" THICKNESS TOPSOIL FREE OF CLAY, DEBRIS, STICKS OR ROCKS IN EXCESS OF 1" IN DIAMETER. ALL TOPSOIL AREAS SHALL BE FINE GRADED AND RAKED, REMOVING RIDGES AND FILLING DEPRESSIONS AS REQUIRED TO MEET FINISHED GRADES. PRIOR TO SODDING, MOISTEN PREPARED TOPSOIL IF GROUND IS DRY. AFTER ONE MONTH FOLLOWING SODDING, APPLY FERTILIZER AT THE MANUFACTURER'S RECOMMENDED RATE FOR NEWLY ESTABLISHED LAWNS. AFTER TWO MONTHS FOLLOWING SODDING, APPLY GYPSUM AT THE RATE OF 100 LBS. PER 1000 SQ. FEET. THE GENERAL CONTRACTOR SHALL MAINTAIN ALL PLANTED OR TURF AREAS THROUGHOUT THE WARRANTY PERIOD AND SHALL PERFORM OPERATIONS SUCH AS ROLLING, REGRADING, RESODDING, AND/OR REPLANTING AS REQUIRED TO ESTABLISH A SMOOTH TURF SURFACE, FREE OF ERODED OR BARE AREAS.
13. ALL UTILITY INFORMATION SHOWN HEREIN IS BASED ON THE INFORMATION AVAILABLE TO THE DESIGN PROFESSIONAL AT THE TIME OF DESIGN. THE CONTRACTOR SHALL VERIFY ALL UTILITY DEPTHS AND LOCATIONS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES TO FIELD LOCATE AND/OR ADJUST THEIR UTILITY AS REQUIRED FOR CONSTRUCTION. ALL UTILITY LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE AND THE DESIGN PROFESSIONAL ASSUMES NO LIABILITY FOR SAME.
14. REMOVE ANY EXCESS SOIL AND DEBRIS FROM AREA AND DISPOSE OF IN AN APPROVED MANNER.
15. SPACING SHOWN FOR PLANTS IS FOR INFORMATION ONLY AND SHALL BE ADJUSTED AS REQUIRED TO PROVIDE UNIFORM SPACING WITHIN PLANTING BEDS.

DATE	BY	
		SURVEYED
		PLOTTED
		INKED
		DESIGNED
		SQUAD

NOTE: ALL TREES AND SHRUBS TO BE PURCHASED, SUPPLIED AND INSTALLED BY CITY OF LAWRENCE STAFF IN COORDINATION WITH THE GENERAL CONTRACTOR

PLANT SCHEDULE

TREES	QTY	BOTANICAL NAME / COMMON NAME	CONT	CAL
ACE DEB	5	Acer platanoides `Deborah` / Deborah Maple	B & B	2.5"Cal
ULM FRO	3	Ulmus x `Frontier` / Frontier Elm	B & B	2.5"Cal
SHRUBS	QTY	BOTANICAL NAME / COMMON NAME	SIZE	
SPI TOR	31	Spiraea betulifolia `Tor` / Birchleaf Spirea	5 gal	
GROUND COVERS	QTY	BOTANICAL NAME / COMMON NAME	CONT	
	50	Perennials Per City	1 qt	

KDOT STANDARDS AND SPECIFICATIONS SHALL GOVERN ALL WORK TO BE PERFORMED. OTHER STANDARDS AND SPECIFICATIONS, AS NEEDED, SHALL BE PER THE CITY OF LAWRENCE, KANSAS

KANSAS DEPARTMENT OF TRANSPORTATION

LANDSCAPE NOTES

C.6.1

FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

LANDSCAPE NOTES

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	111	143
F.A. NO.	TEA-T037(301)			

DATE	BY

SURVEYED
PLOTTED
INKED
DESIGNED
SQUAD

EXTEND SOD LIMIT TO PLATFORM

TRAFFIC SIGNAL CABINET

BENCHMARK ELEV.=826.00

50 PERENNIALS, SPECIFIC TYPE PER DIRECTION OF THE CITY

-SOD-

ULM FRO
3 - B & B

SPI TOR
31 - 5 gal

ACE DEB
1 - 15 gal

ACE DEB
2 - 15 gal

ACE DEB
2 - 15 gal

250.00'
S86°08'12"W

S01°49'49"E 150.15'

N88°08'12"E 117.00'

N88°08'12"E 2.29'

S52°11'11"E 149.1

411 E 7TH ST.

409 E 7TH ST.

N01°49'49"W 2.

MATCHLINE - SEE SHEET C.6.3

1" = 30'

0 30

KANSAS DEPARTMENT OF TRANSPORTATION

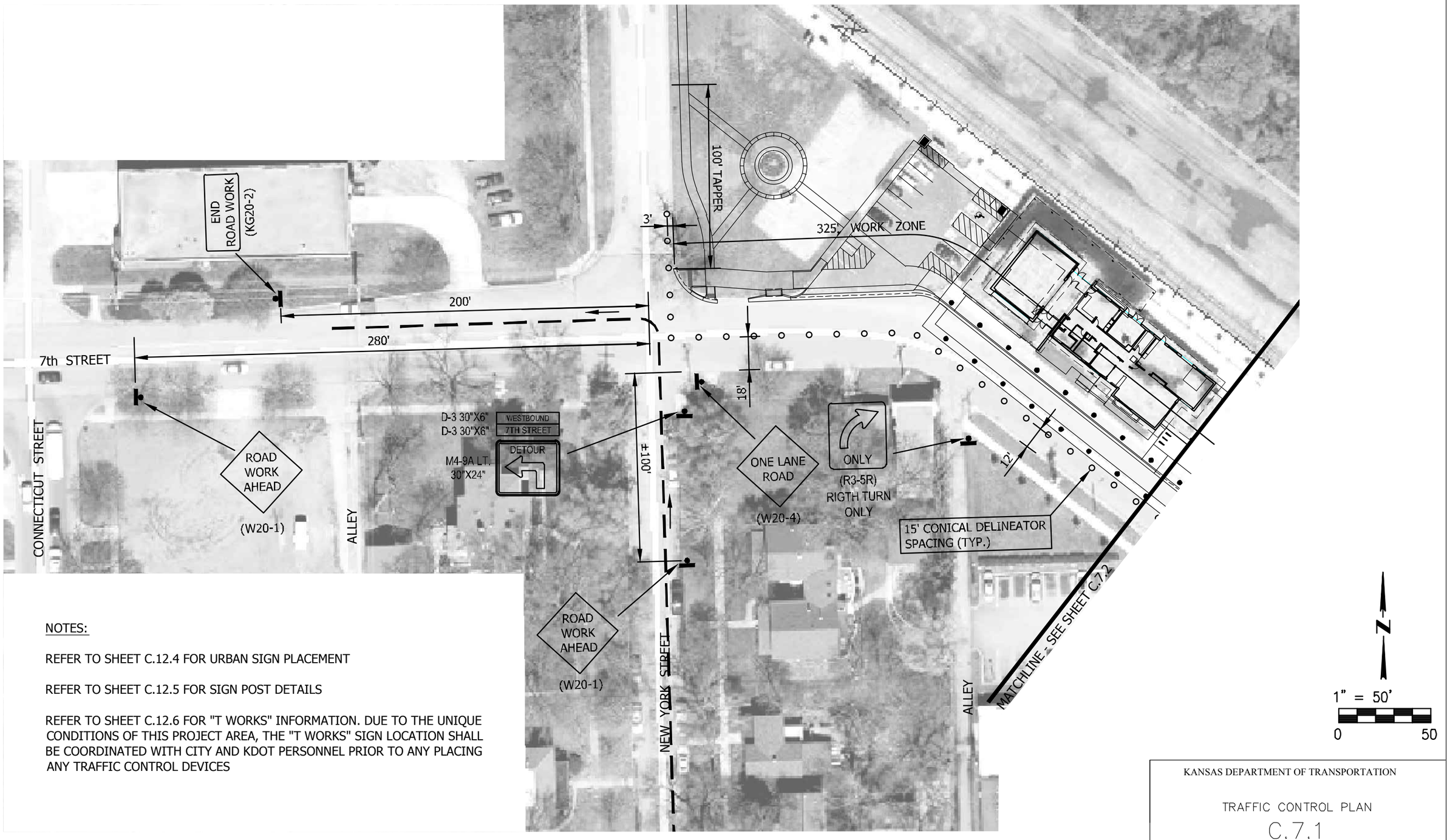
LANDSCAPE PLAN

C.6.2

LANDSCAPE PLAN

FHWA APPROVAL XX-XX-XX		APP'D	XXX
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	112	143
F.A. NO.	TEA-T037(301)			



NOTES:

REFER TO SHEET C.12.4 FOR URBAN SIGN PLACEMENT

REFER TO SHEET C.12.5 FOR SIGN POST DETAILS

REFER TO SHEET C.12.6 FOR "T WORKS" INFORMATION. DUE TO THE UNIQUE CONDITIONS OF THIS PROJECT AREA, THE "T WORKS" SIGN LOCATION SHALL BE COORDINATED WITH CITY AND KDOT PERSONNEL PRIOR TO ANY PLACING ANY TRAFFIC CONTROL DEVICES

DATE | BY | SURVEYED | PLOTTED | INKED | DESIGNED | SQUAD

KANSAS DEPARTMENT OF TRANSPORTATION

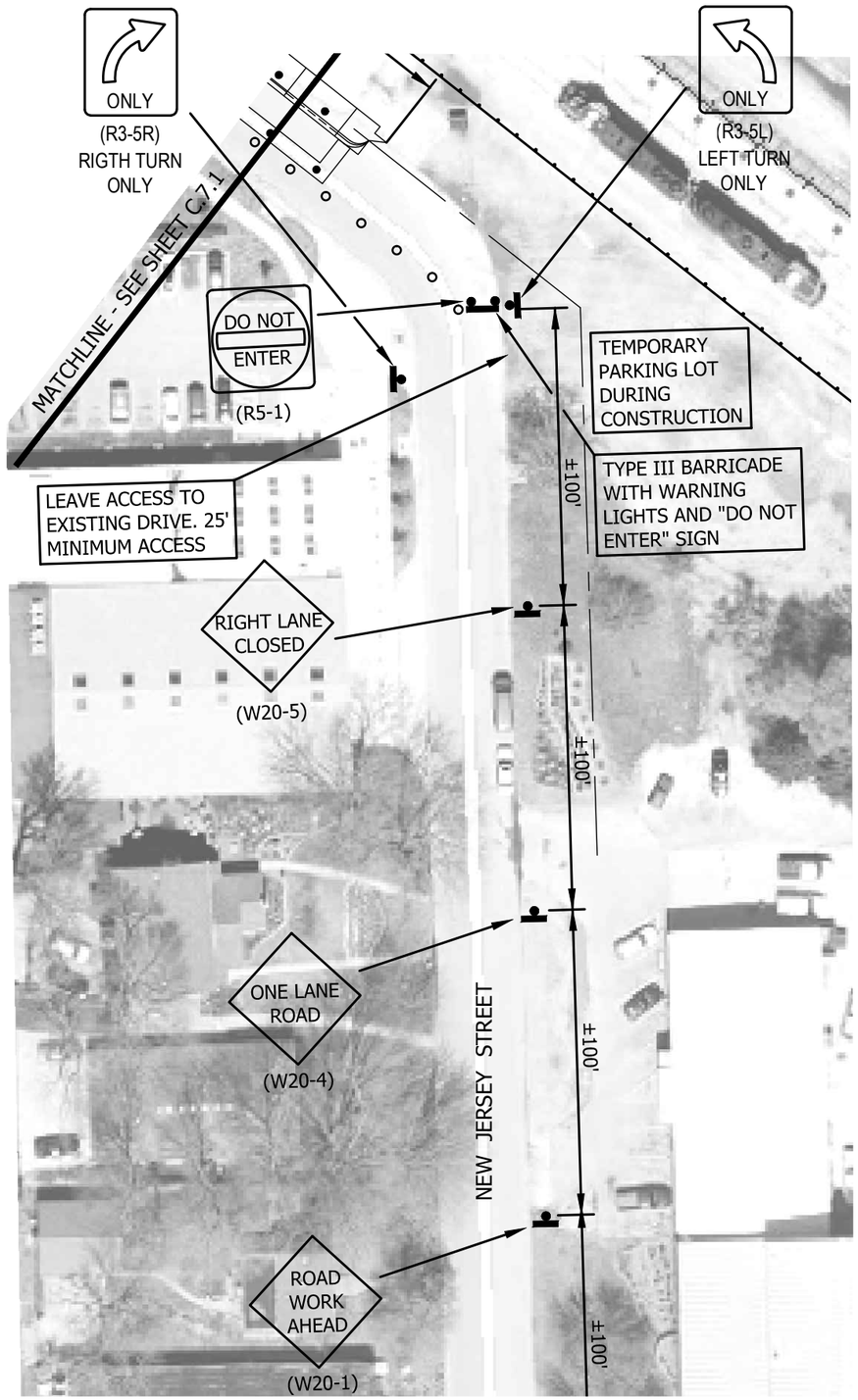
TRAFFIC CONTROL PLAN

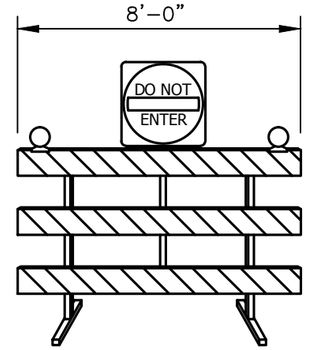
C.7.1

TRAFFIC CONTROL PLAN

FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	113	143
F.A. NO.	TEA-T037(301)			





TYPE III BARRICADE WITH WARNING LIGHTS AND 'DO NOT ENTER" SIGN

TYPE III BARRICADE

NTS

N

1" = 50'

0 50

NOTES:

REFER TO SHEET C.12.4 FOR URBAN SIGN PLACEMENT

REFER TO SHEET C.12.5 FOR SIGN POST DETAILS

REFER TO SHEET C.12.6 FOR "T WORKS" INFORMATION. DUE TO THE UNIQUE CONDITIONS OF THIS PROJECT AREA, THE "T WORKS" SIGN LOCATION SHALL BE COORDINATED WITH CITY AND KDOT PERSONNEL PRIOR TO ANY PLACING ANY TRAFFIC CONTROL DEVICES

DATE
BY
SURVEYED
PLOTTED
INKED
DESIGNED
SQUAD

TRAFFIC CONTROL PLAN

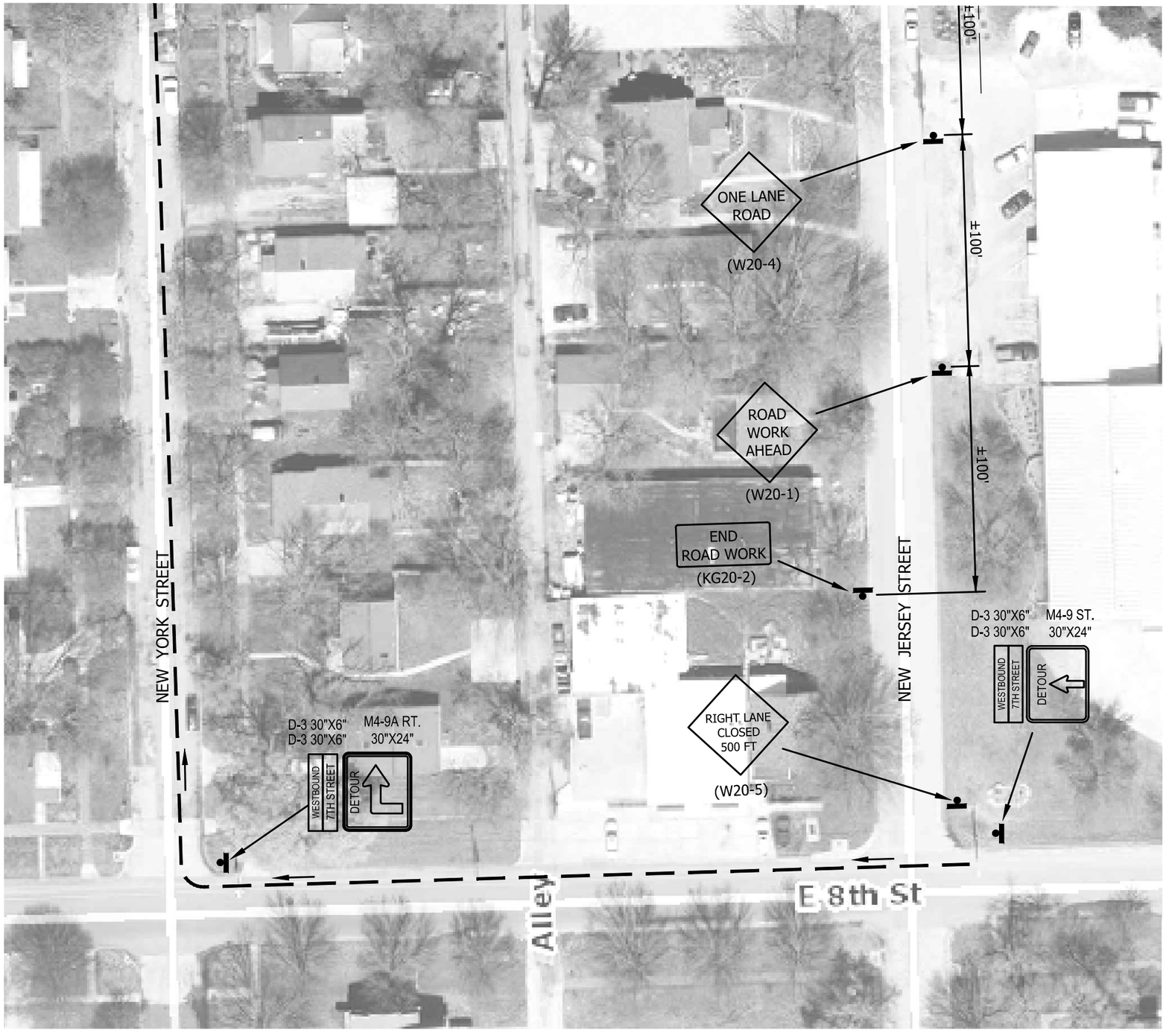
KANSAS DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN

C.7.2

FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	114	143
F.A. NO.	TEA-T037(301)			



NOTES:

REFER TO SHEET C.12.4 FOR URBAN SIGN PLACEMENT

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REFER TO SHEET C.12.6 FOR "T WORKS" INFORMATION. DUE TO THE UNIQUE CONDITIONS OF THIS PROJECT AREA, THE "T WORKS" SIGN LOCATION SHALL BE COORDINATED WITH CITY AND KDOT PERSONNEL PRIOR TO ANY PLACING ANY TRAFFIC CONTROL DEVICES

N

1" = 50'

0 50

BY	DATE
SURVEYED	
PLOTTED	
INKED	
DESIGNED	
SQUAD	

KANSAS DEPARTMENT OF TRANSPORTATION

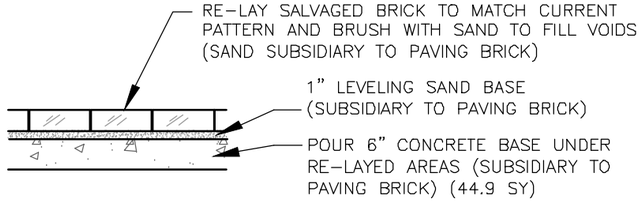
TRAFFIC CONTROL PLAN

C.7.3

TRAFFIC CONTROL PLAN

FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

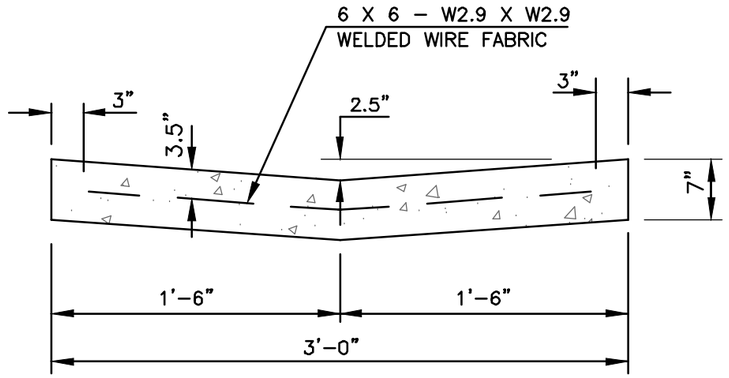
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	115	143
F.A. NO.	TEA-T037(301)			



FOR EXISTING BRICK PARKING LOT AREAS

PAVING BRICK (SPECIAL)

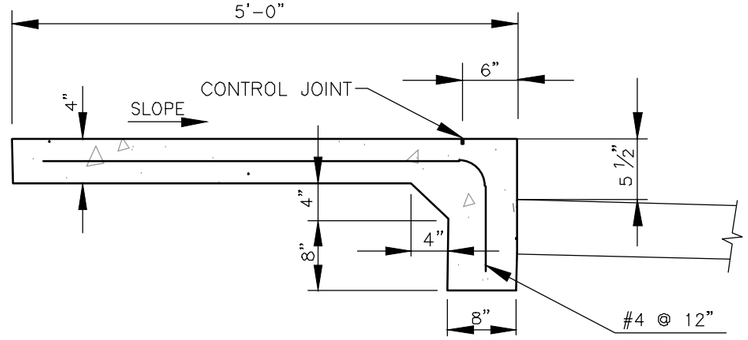
NTS



NOTE:
REFER TO GRADING PLAN FOR SPOT GRADES

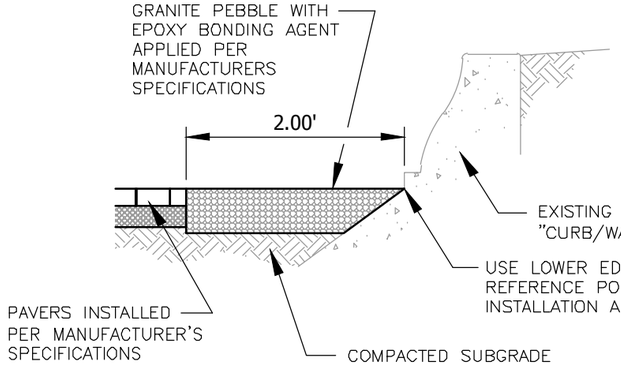
CONCRETE VALLEY GUTTER

NTS

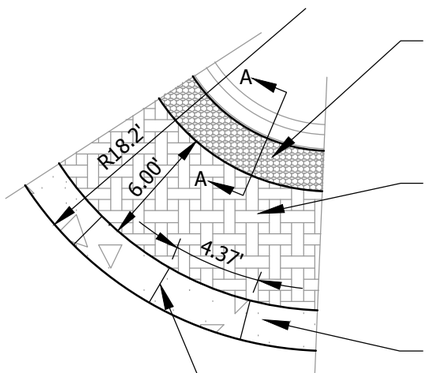


TURNDOWN CURB AND WALK

NTS



SECTION A–A



INSTALL A 2' WIDE GREY GRANITE PEBBLE RING AROUND THE EXISTING CONCRETE CIRCULAR RING USING A PEBBLE EPOXY BONDING AGENT (12.9 SY)

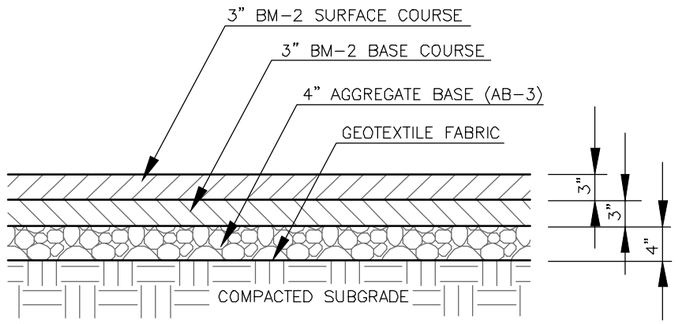
INTERIOR WALK TO BE BRICK PAVERS, INSTALLATION PER MANUFACTURERS SPECIFICATIONS. STYLE, COLOR, AND PATTERN TO BE VERIFIED BY CITY STAFF (55.4 SY)

INSTALL 2'–0" RIBBON CURB (108.1 LF)

SAWCUT JOINT, SPACED EVENLY AROUND RING, 4.37' FEET FROM INTERIOR ARC

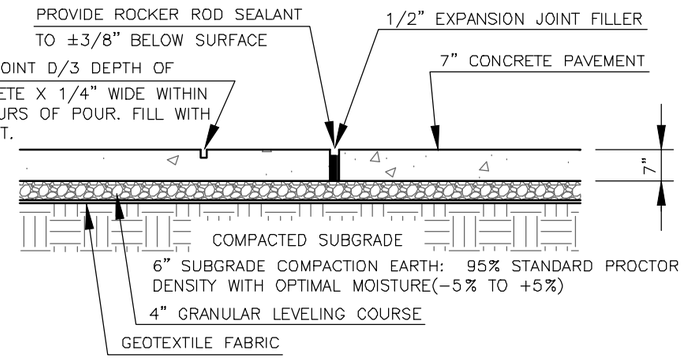
CIRCULAR WALK AROUND EXISTING CIRCULAR STRUCTURE

NTS



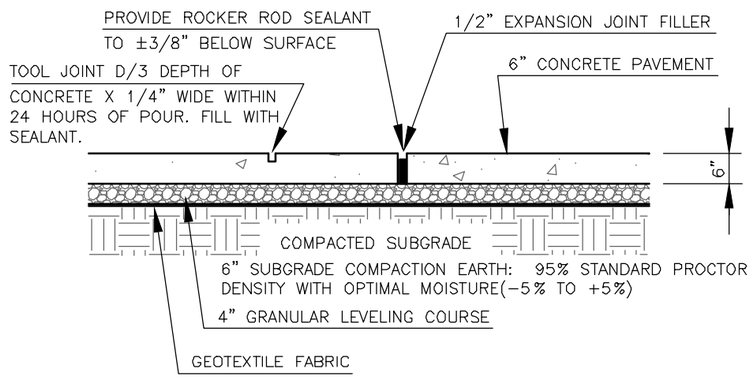
6" ASPHALT PAVING DETAIL

NTS



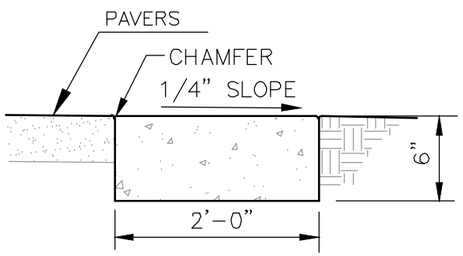
7" NON–REINFORCED CONCRETE

NTS



6" NON–REINFORCED CONCRETE

NTS



2'–0" RIBBON CURB

NTS

KANSAS DEPARTMENT OF TRANSPORTATION

SITE DETAILS

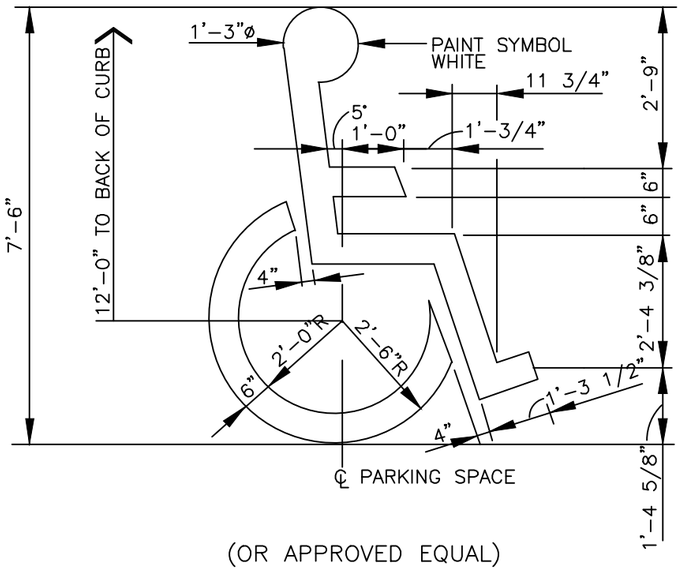
C.8.1

FHWA APPROVAL XX–XX–XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

DATE
BY
SURVEYED
PLOTTED
INKED
DESIGNED
SQUAD

SITE DETAILS

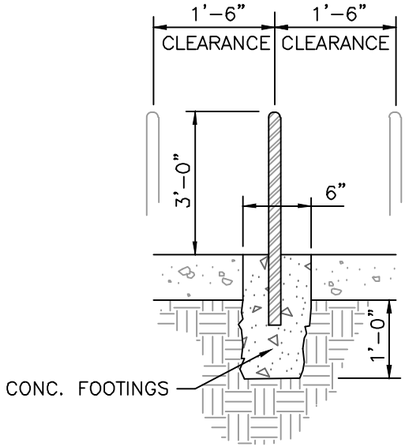
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	116	143
F.A. NO.	TEA-T037(301)			



(OR APPROVED EQUAL)

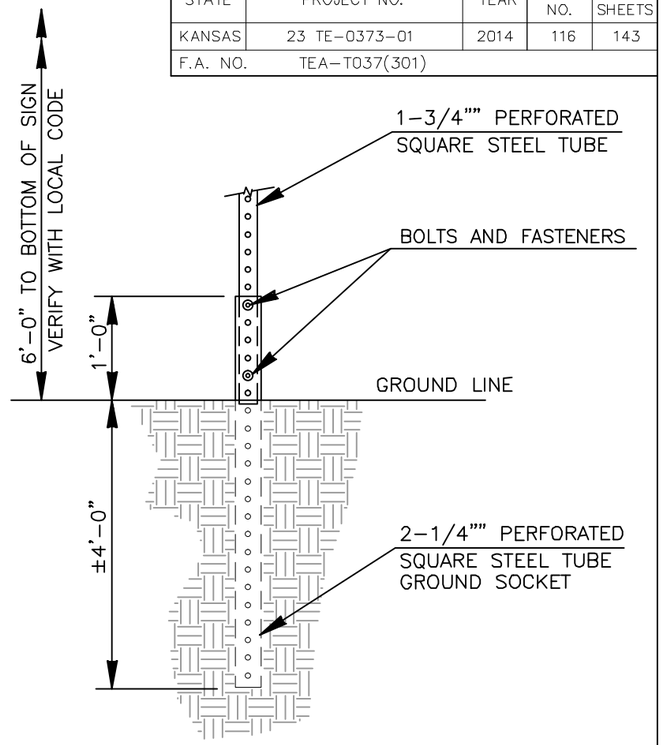
PAINTED ACCESSIBLE SYMBOL

NTS



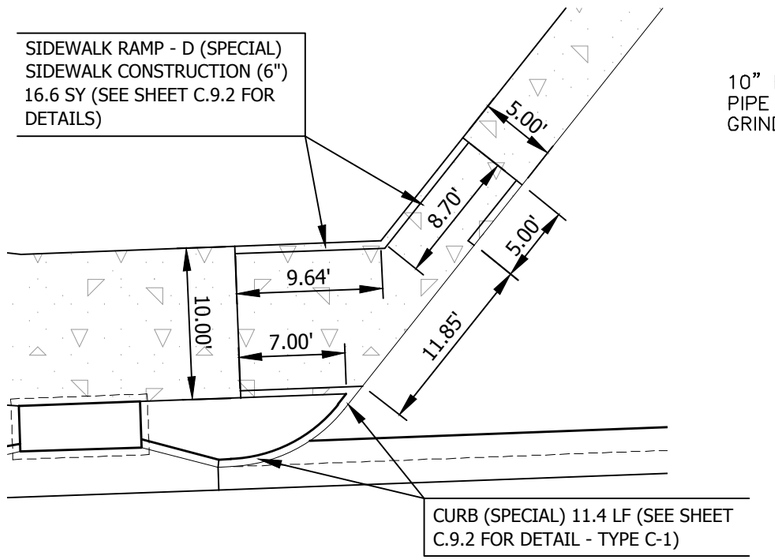
SECTION A-A

REFLECTIVE (80 MIL) ALUMINUM SIGN 18"x12" WITH CENTER HOLES AND REFLECTIVE PERMANENT ADHESIVE VINLY LABEL 18"x12"



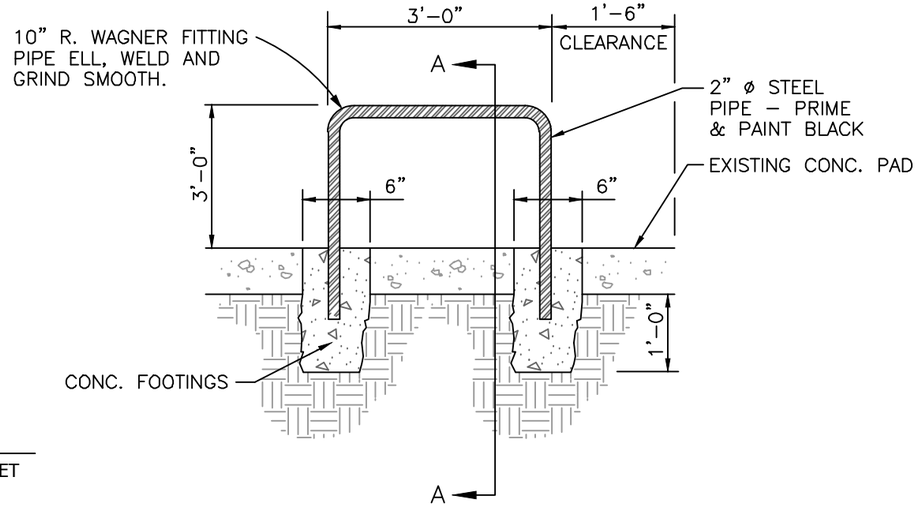
MOTORCYCLE PARKING SIGN & POST

NTS



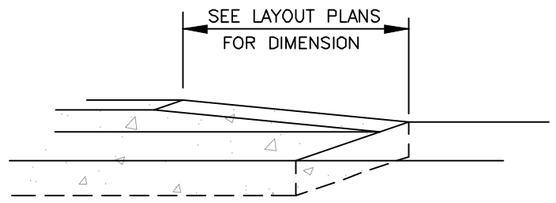
SIDEWALK RAMP - D

SCALE: 1"=10'-0"



BICYCLE RACK

NTS



CURB TRANSITION

NTS

KANSAS DEPARTMENT OF TRANSPORTATION

SITE DETAILS

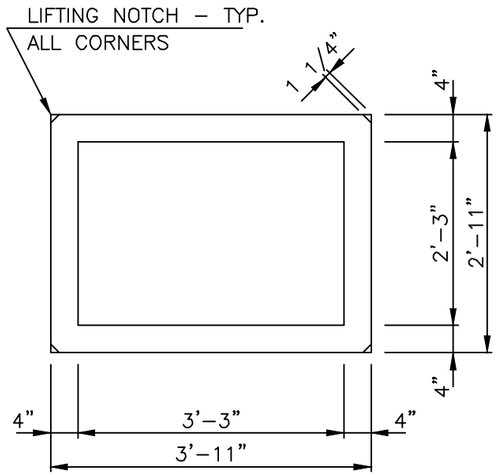
C.8.2

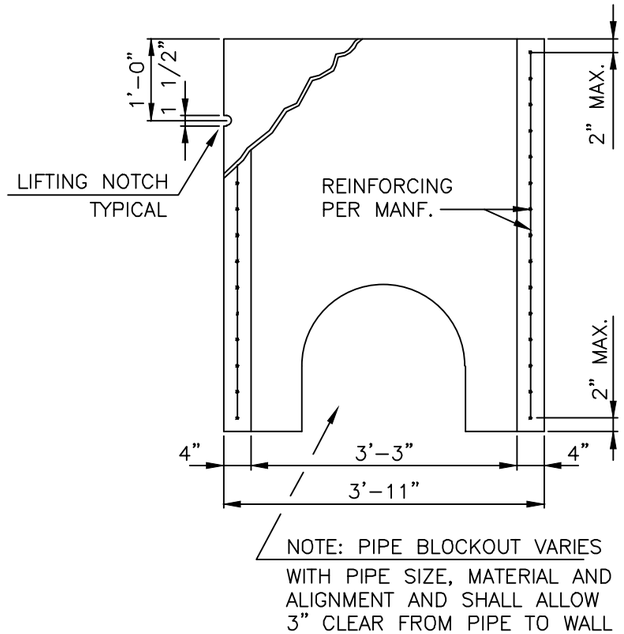
FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

DATE
BY
SURVEYED
PLOTTED
INKED
DESIGNED
SQUAD

SITE DETAILS

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	117	143
F.A. NO.	TEA-T037(301)			



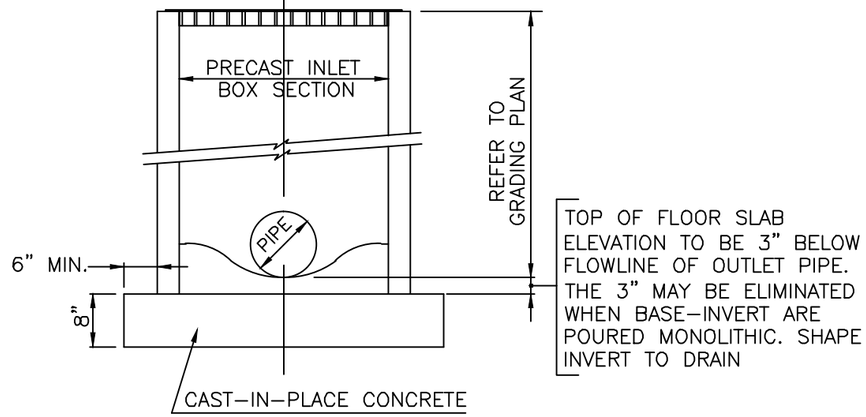


PRECAST AREA INLET BOX

NTS

GENERAL NOTES

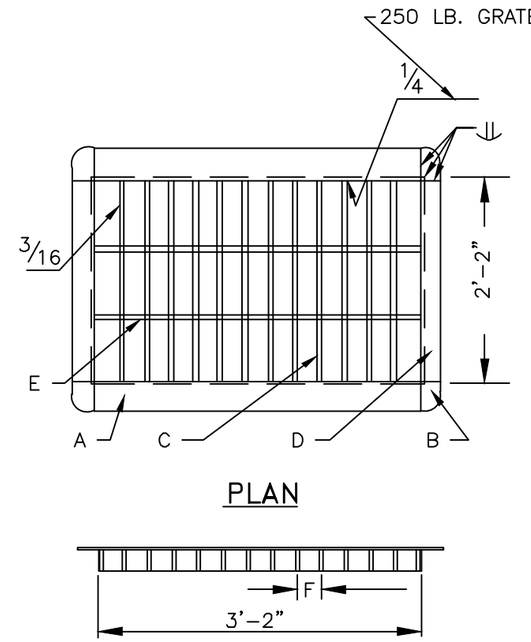
1. GROUT ALL PIPES IN PLACE.
2. GRATES & FRAMES SHALL BE ASTM A36 STEEL COATED WITH BITUMASTIC BLACK SOLUTION (COAL TAR BASE) AS MANUFACTURED BY KOPPERS OR APPROVED EQUAL



SECTION – AREA INLET

NTS

250 LB. TRAFFIC GRATE	
A	2 EA. ∠ 1/2x3x3x3'-1 1/8"
B	4 EA. PL 1/2x3x0'-3"
C	12 EA. PL 1/2x3x2'-0 7/8"
D	2 EA. ∠ 1/4x3x3x2'-1"
E	26 EA. PL 3/80x0'-2 3/8"
F	2-7/8" O.C.



PLAN

SECTION

AREA INLET GRATE

NTS

KANSAS DEPARTMENT OF TRANSPORTATION

SITE DETAILS

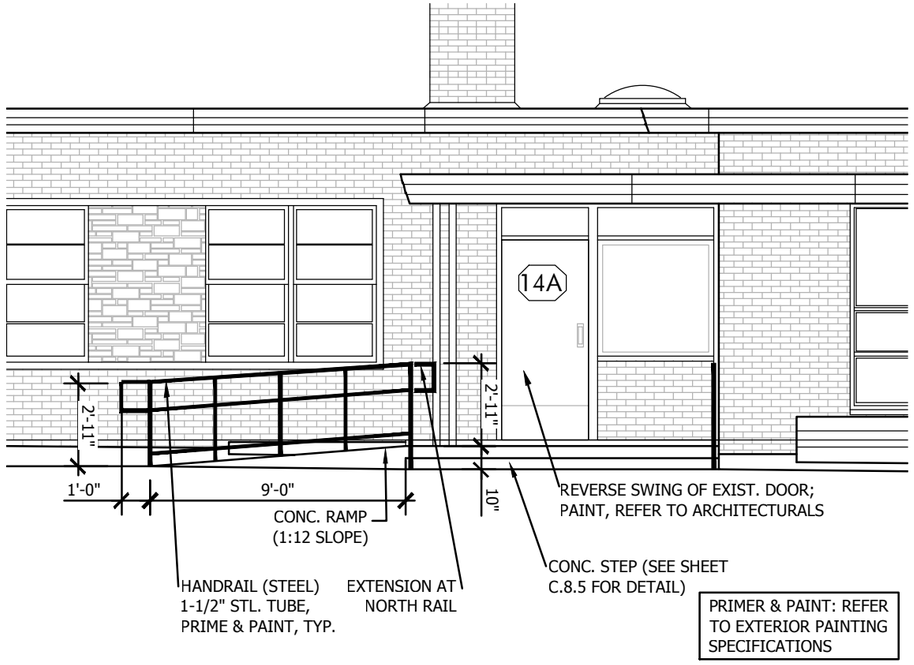
C.8.3

FHWA APPROVAL XX-XX-XX		APP'D	XXX
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

SITE DETAILS

DATE
BY
SURVEYED
PLOTTED
INKED
DESIGNED
SQUAD

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	118	143
F.A. NO.	TEA-T037(301)			

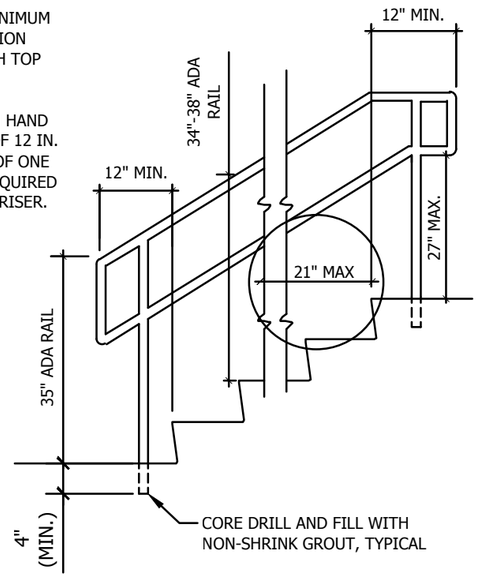


1 SE RAMP & STAIR SOUTH ELEVATION

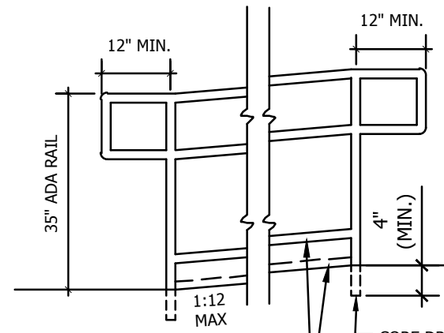
3/16" = 1'-0"

NOTE:
X IS THE 12 IN. MINIMUM HANDRAIL EXTENSION REQUIRED AT EACH TOP RISER.

Y IS THE MINIMUM HAND RAIL EXTENSION OF 12 IN. PLUS THE WIDTH OF ONE TREAD THAT IS REQUIRED AT EACH BOTTOM RISER.



NOTE: 42" HIGH GUARRAIL REQUIRED IF LANDING IS OVER 30" FROM LOWER GRADE



NOTES:
SLOPES LESS THAN 1:20 DO NOT REQUIRE HANDRAILS.

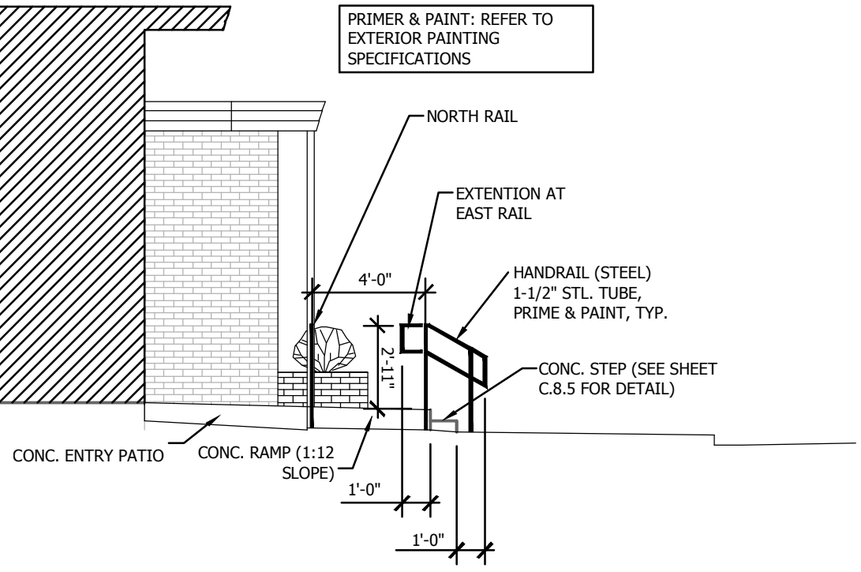
CONTINUOUS HANDRAILS ARE REQUIRED AT BOTH SIDES OF EACH RAMP.

PROVIDE MIN. 36" CLEAR WIDTH BETWEEN HANDRAILS

NOTE: 42" HIGH GUARDRAIL REQUIRED IF LANDING IS OVER 30" FROM LOWER GRADE

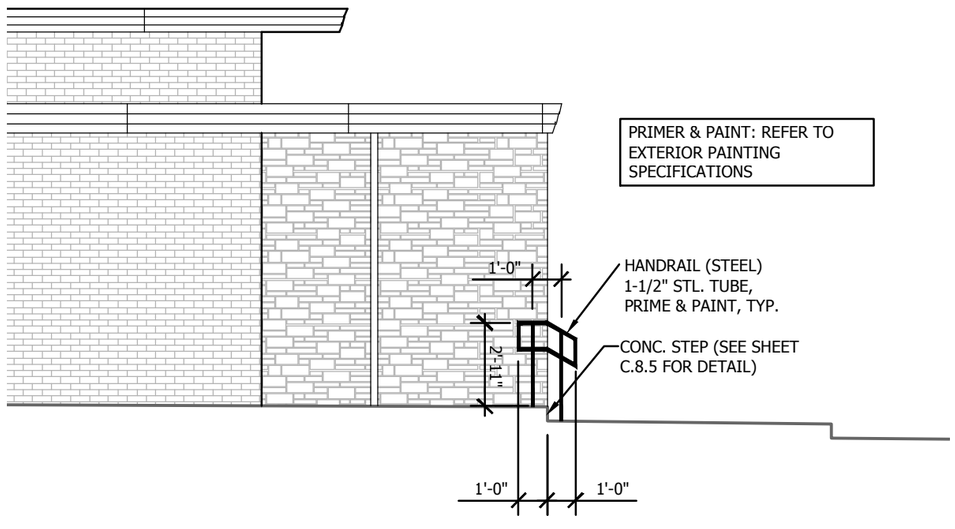
2 TYP. ADA HANDRAIL DETAILS

N.T.S.



3 SE RAMP & STAIR WEST ELEVATION

3/16" = 1'-0"



4 SOUTH ENTRANCE WEST ELEVATION

3/16" = 1'-0"

KANSAS DEPARTMENT OF TRANSPORTATION

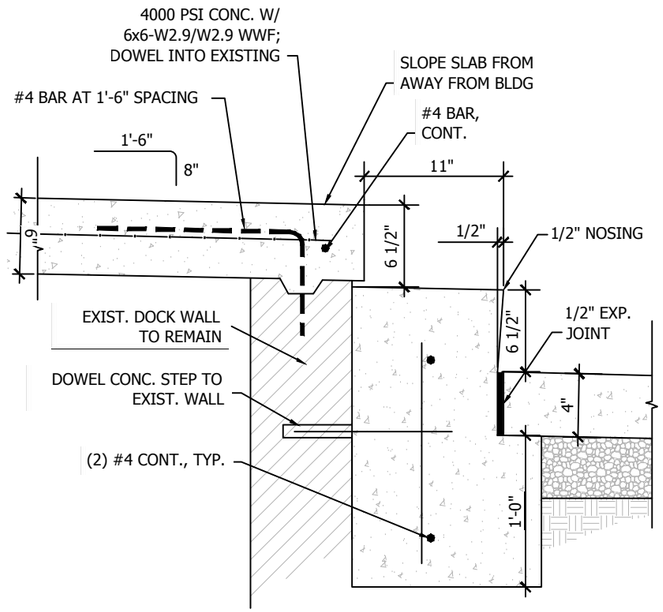
HANDRAIL ELEVATIONS & DETAILS

C.8.4

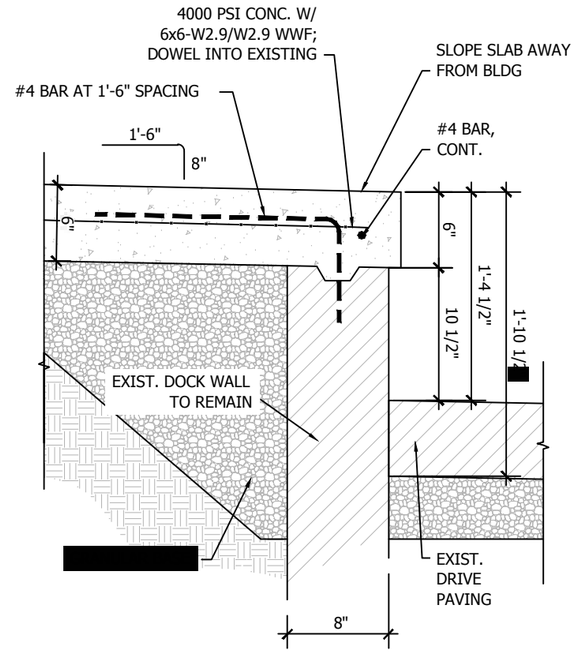
FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

DATE
BY
SURVEYED
PLOTTED
INKED
DESIGNED
SQUAD

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	119	143
F.A. NO.	TEA-T037(301)			



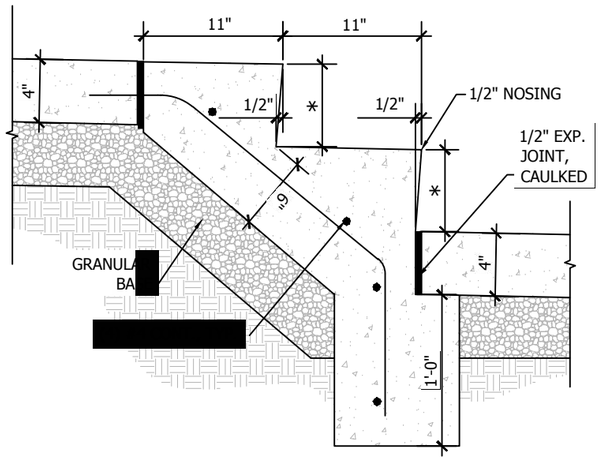
1 CONC. STEP AT DOCK
1" = 1'-0"



2 CONCRETE SLAB AT DOCK
1" = 1'-0"

* 5 1/2" TREADS AT SOUTHEAST ENTRANCE

6 1/2" TREADS AT ALL OTHER LOCATIONS
UNLESS NOTED



3 CONC. STEP DETAIL
1" = 1'-0"

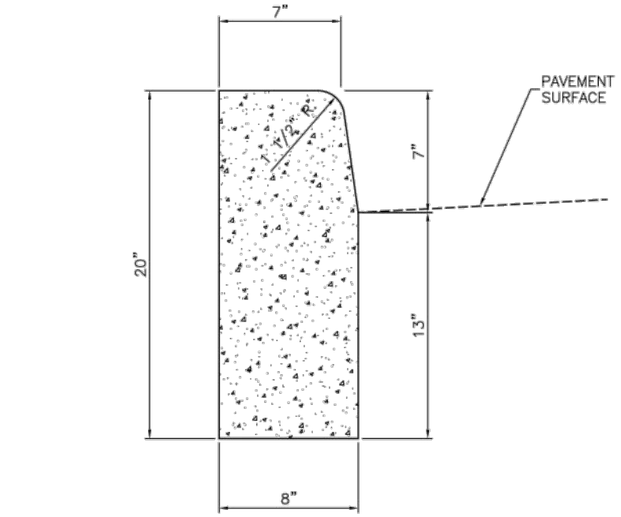
DATE
BY
SURVEYED
PLOTTED
INKED
DESIGNED
SQUAD

KANSAS DEPARTMENT OF TRANSPORTATION

CONCRETE STEP DETAILS

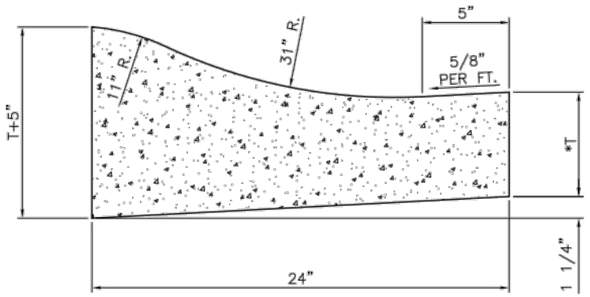
C.8.5

FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.



STRAIGHT CURB
(TYPE C-1)

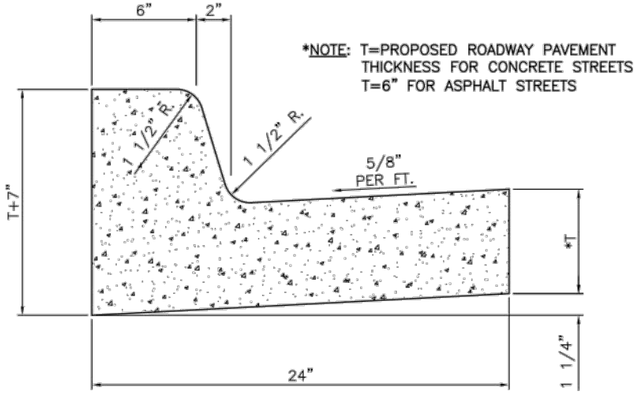
*NOTE: T=PROPOSED ROADWAY PAVEMENT THICKNESS FOR CONCRETE STREETS T=6" FOR ASPHALT STREETS



ROLL BACK CURB AND GUTTER
(TYPE CG-2)

CURB AND GUTTER GENERAL NOTES

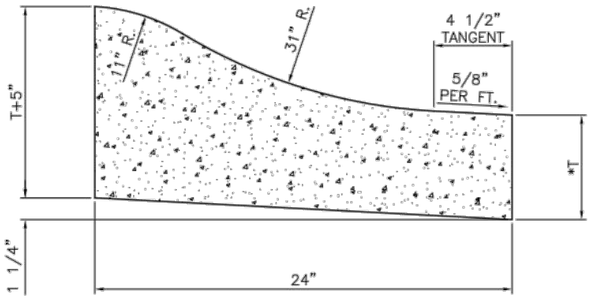
1. TYPE CG-2 OR CG-2 DRY ROLL BACK CURB AND GUTTER MAY BE USED ONLY ON RESIDENTIAL STREETS. CURB CUTS FOR DRIVEWAYS ARE NOT REQUIRED WITH ROLL BACK CURB AND GUTTER.
2. INSTALL JOINTS IN ACCORDANCE WITH STANDARD SPECIFICATIONS.
3. CONCRETE SHALL CONFORM TO STANDARD SPECIFICATIONS, SECTION 2000.
4. ASPHALTIC CONCRETE SURFACE COURSE SHALL CONFORM TO STANDARD SPECIFICATIONS, SECTION 1300.
5. PAVEMENT REMOVAL AND REPLACEMENT BEYOND THE LIMITS OF CURB AND GUTTER REMOVAL IS AT THE CONTRACTOR'S OPTION AND COST.



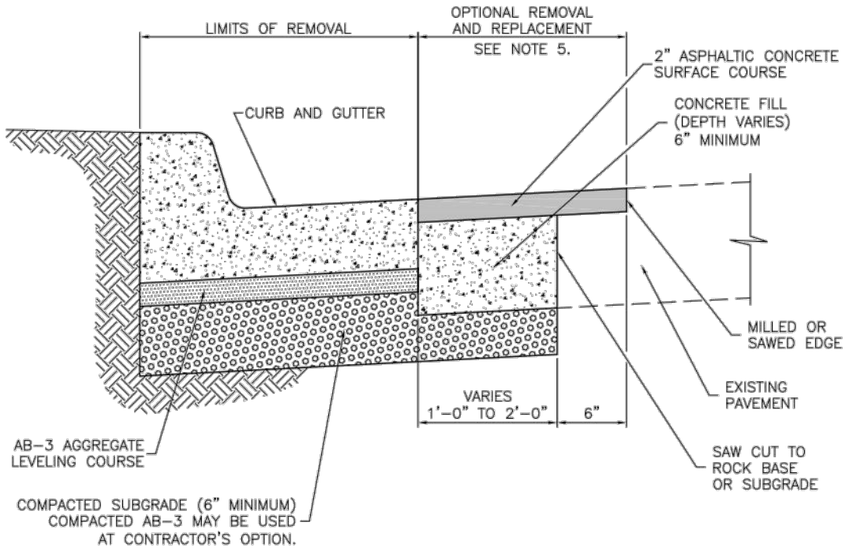
*NOTE: T=PROPOSED ROADWAY PAVEMENT THICKNESS FOR CONCRETE STREETS T=6" FOR ASPHALT STREETS

STRAIGHT BACK CURB AND GUTTER
(TYPE CG-1)

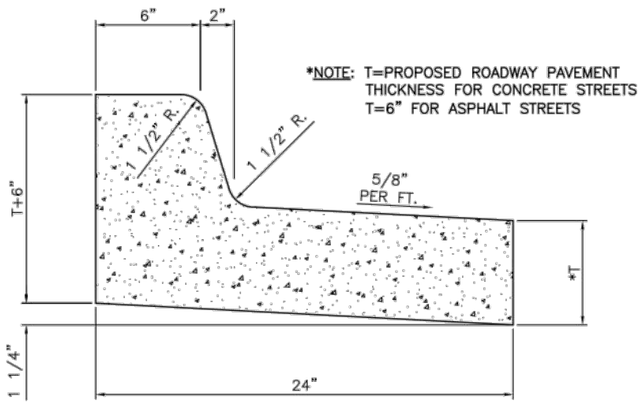
*NOTE: T=PROPOSED ROADWAY PAVEMENT THICKNESS FOR CONCRETE STREETS T=6" FOR ASPHALT STREETS



ROLL BACK CURB AND GUTTER
(TYPE CG-2, DRY)

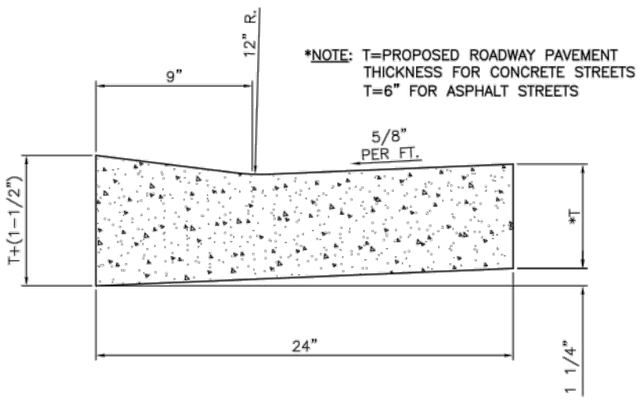


CURB REPLACEMENT DETAIL
(NOTE: TO BE USED ONLY WHEN EXISTING CURB AND GUTTER IS REMOVED AND REPLACED, BUT STREET PAVEMENT REMAINS IN PLACE)



*NOTE: T=PROPOSED ROADWAY PAVEMENT THICKNESS FOR CONCRETE STREETS T=6" FOR ASPHALT STREETS

STRAIGHT BACK DRY CURB AND GUTTER
(TYPE CG-1, DRY)



*NOTE: T=PROPOSED ROADWAY PAVEMENT THICKNESS FOR CONCRETE STREETS T=6" FOR ASPHALT STREETS

CURB AND GUTTER THROUGH DRIVEWAYS AND ACCESS RAMPS
(TYPE CG-3)

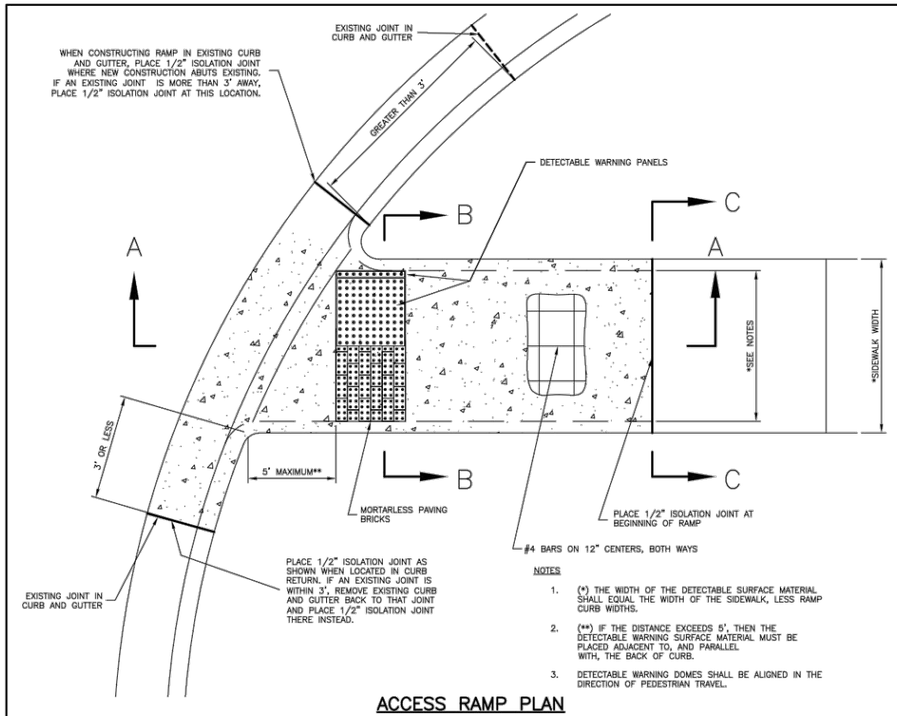
C.9.1 SHEET 120 OF 143

DATE	BY	REVISION
02-08-13	LJM	CITY ENGINEER'S NAME UPDATED
09-10-09	LJM	REPLACES ALL PREVIOUS VERSIONS OF CONCRETE CURB AND GUTTER DETAILS

CITY OF LAWRENCE, KANSAS
ENGINEERING DIVISION OF PUBLIC WORKS

STANDARD DETAILS FOR
CONCRETE CURB AND GUTTER

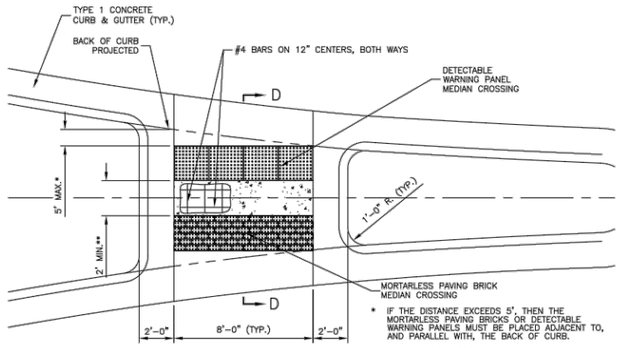
DAVID P. CRONIN, CITY ENGINEER
DAVID L. CORLISS, CITY MANAGER



NOTES

1. (*) THE WIDTH OF THE DETECTABLE SURFACE MATERIAL SHALL EQUAL THE WIDTH OF THE SIDEWALK, LESS RAMP CURB WIDTHS.
2. (**) IF THE DISTANCE EXCEEDS 5', THEN THE DETECTABLE WARNING SURFACE MATERIAL MUST BE PLACED ADJACENT TO, AND PARALLEL WITH, THE BACK OF CURB.
3. DETECTABLE WARNING DOMES SHALL BE ALIGNED IN THE DIRECTION OF PEDESTRIAN TRAVEL.

ACCESS RAMP PLAN

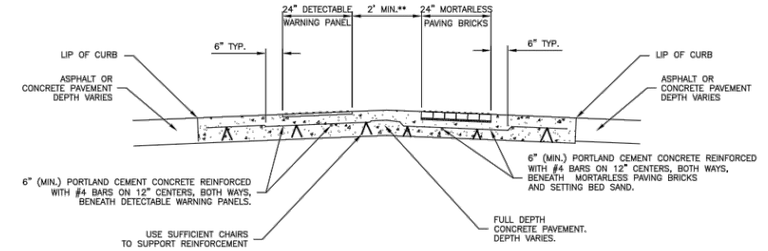


* IF THE DISTANCE EXCEEDS 5', THEN THE MORTARLESS PAVING BRICKS OR DETECTABLE WARNING PANELS MUST BE PLACED ADJACENT TO, AND PARALLEL WITH, THE BACK OF CURB.

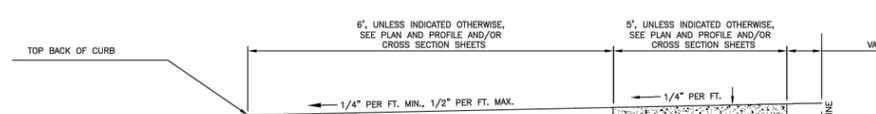
** IF, WHEN RETROFITTING, THE 2' MINIMUM CAN NOT BE ACHIEVED, MORTARLESS PAVING BRICKS OR DETECTABLE WARNING PANELS SHALL BE INSTALLED OVER THE ENTIRE AREA.

MEDIAN RAMP CROSSING PLAN

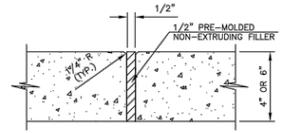
MEDIAN RAMP CROSSING DETAILS



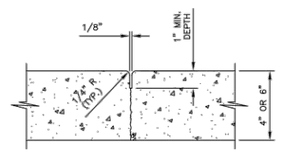
SECTION D–D



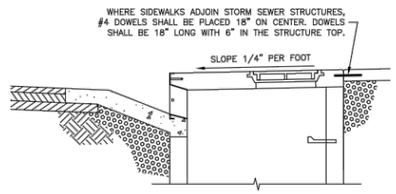
SECTION E–E



SECTION F–F ISOLATION JOINT



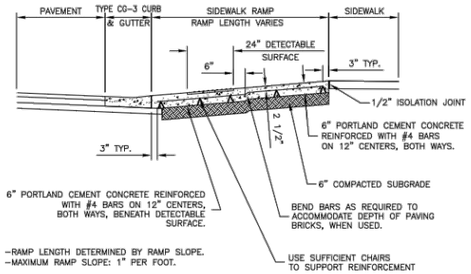
SECTION G–G CONTRACTION JOINT (SAWED OR FORMED)



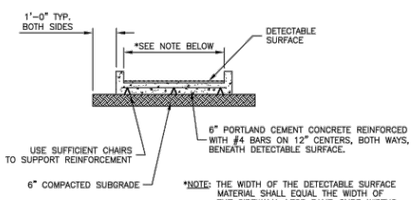
SECTION H–H SIDEWALK TO INLET DOWELING DETAIL

SIDEWALK GENERAL NOTES

1. CONSTRUCTION JOINTS SHALL BE PLACED IN 5'–0" WIDE SIDEWALKS AT A MINIMUM OF 5'–0" INTERVALS. WHEN OTHER WIDTHS OF SIDEWALK ARE USED, CONSTRUCTION JOINTS SHALL BE PLACED AS DIRECTED BY THE CITY ENGINEER OR AN AUTHORIZED REPRESENTATIVE.
2. ISOLATION JOINTS SHALL BE PLACED AT ALL LOCATIONS WHERE SIDEWALK ABUTS EXISTING STRUCTURES AND AS DIRECTED BY THE CITY ENGINEER OR AN AUTHORIZED REPRESENTATIVE.
3. ACCESS RAMPS SHALL BE CONSTRUCTED AT ALL LOCATIONS WHERE SIDEWALKS INTERSECT NEW STREET CONSTRUCTION AND AS OTHERWISE SHOWN ON THE PLANS.

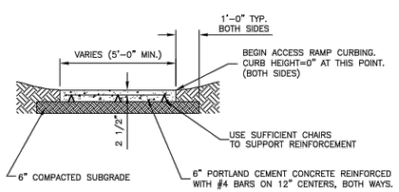


SECTION A–A

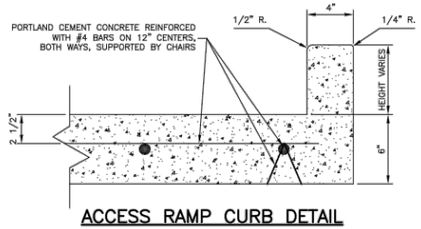


*NOTE: THE WIDTH OF THE DETECTABLE SURFACE MATERIAL SHALL EQUAL THE WIDTH OF THE SIDEWALK, LESS RAMP CURB WIDTHS.

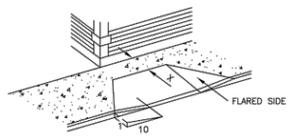
SECTION B–B



SECTION C–C



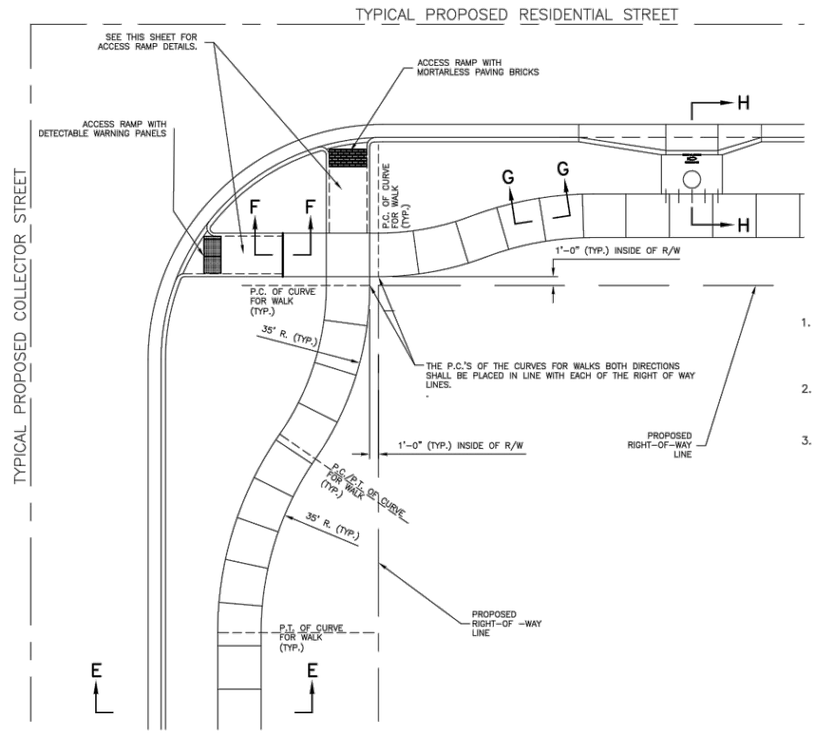
ACCESS RAMP CURB DETAIL



THIS FIGURE SHOWS A TYPICAL CURB RAMP, CUT INTO A WALKWAY PERPENDICULAR TO THE CURB FACE, WITH FLARED SIDES HAVING A MAXIMUM SLOPE OF 1:10. THE LANDING AT THE TOP, MEASURED FROM THE TOP OF THE RAMP TO THE EDGE OF THE WALKWAY OR CLOSEST OBSTRUCTION IS DENOTED AS "X". IF X, THE LANDING DEPTH AT THE TOP OF THE CURB RAMP IS LESS THAN 48", THEN THE SLOPE OF THE FLARED SIDE SHALL NOT EXCEED 1:12.

ACCESS RAMP WITH FLARED SIDES

ACCESS RAMP DETAILS



GENERAL SIDEWALK LAYOUT PLAN

C.9.2 SHEET 121 OF 143

DATE	BY	REVISION
02–08–13	LJM	CITY ENGINEER'S NAME UPDATED
12–17–10	LJM	CITY LOGO UPDATED
03–20–08	LJM	REPLACES ALL PREVIOUS VERSIONS OF SIDEWALK DETAILS

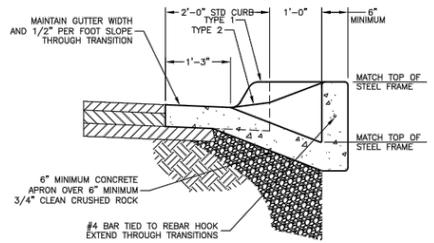
CITY OF LAWRENCE, KANSAS
ENGINEERING DIVISION OF PUBLIC WORKS

STANDARD DETAILS FOR
CONCRETE SIDEWALKS

DAVID P. CRONIN, CITY ENGINEER
DAVID L. CORLISS, CITY MANAGER

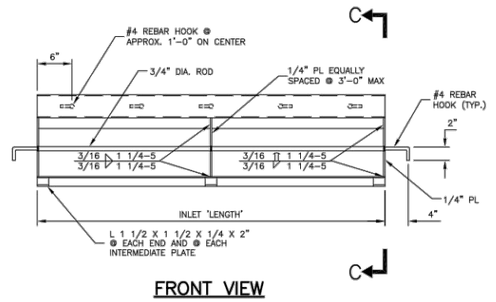
NOTES

1. STANDARD DRAWINGS SHALL APPLY ONLY TO STRUCTURES WITHIN THE FOLLOWING LIMITS:
   A. INSIDE PLAN DIMENSIONS SHALL NOT EXCEED 40 SQUARE FEET.
   B. WALL HEIGHT SHALL NOT EXCEED 10 VERTICAL FEET..
2. THE MINIMUM WIDTH OF ALL STRUCTURES SHALL BE 4 FEET OR AS REQUIRED FOR PIPE CLEARANCE.
3. STEPS ARE REQUIRED IN ALL STRUCTURES WITH WALL HEIGHT GREATER THAN 4 FEET.
4. FRAMES, LIDS, CASTINGS, STEPS, INVERT, SUBSURFACE DRAINS, PIPE CONNECTIONS AND OTHER ITEMS SHOWN SHALL BE CONSIDERED SUBSIDIARY TO EACH STANDARD STRUCTURE.
5. SUBSURFACE DRAINS ARE REQUIRED IN ALL STRUCTURES IN THE PUBLIC RIGHT-OF-WAY WITH WALL HEIGHT GREATER THAN 3 FEET. ONE DRAIN PER WALL SHALL BE INSTALLED ONLY IN WALLS WHICH ARE PERPENDICULAR TO THE STREET CENTERLINE.
6. CURB INLETS WITH INSIDE PLAN DIMENSIONS EXCEEDING 25 SQUARE FEET SHALL HAVE TYPE II RING AND COVER. CURB INLETS IN PAVED AREAS SHALL HAVE TYPE II RING AND COVER.
7. WHERE SIDEWALKS ADJOIN STORM SEWER STRUCTURES, #4 DOWELS SHALL BE PLACED 18" ON CENTER. DOWELS SHALL BE 18" LONG WITH 6" IN THE STRUCTURE TOP.
8. CURB INLET DIMENSIONS SHALL BE STATED AS 'LENGTH' x 'WIDTH' ON ALL CONSTRUCTION NOTES.
9. THE MINIMUM LENGTH OF CURB INLET OPENING SHALL BE 5 FEET.
10. CURB INLET FRAME TOP CHANNEL SHALL BE FABRICATED FROM 0.15 MAX. CARBON, FORMING QUALITY, OR A36 HOT ROLLED STEEL PLATE.
11. ALL FLAT PLATE AND RODS SHALL BE M1020 MERCHANT QUALITY OR A36 HOT ROLLED STEEL.
12. ALL CURB INLET FRAME MATERIALS SHALL BE FREE FROM RUST AND MILL SCALE.
13. ALL WELDING SHALL CONFORM TO THE PROVISIONS OF THE AWS "STRUCTURAL WELDING CODE."
14. CURB INLET FRAMES SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION PER ASTM A123.
15. CURB INLET FRAMES SHALL BE SLOPED TO MATCH THE STREET CENTERLINE GRADE.
16. STAMPING TOOLS SHALL BE APPROVED PRIOR TO USE. A FULL SIZE FABRICATION PATTERN MAY BE OBTAINED FROM THE PUBLIC WORKS DEPARTMENT. FOR CAST-IN-PLACE INLETS, A STAMPING TOOL MAY BE BORROWED FROM THE DEPARTMENT PER AN APPROVED SCHEDULE.
17. ALL DIMENSIONS AND SIDE SLOPES SHOWN WITHIN THE "TYPICAL TRENCH SECTION DETAILS" ARE TYPICAL. ANY DEVIATION FROM THESE DIMENSIONS MUST BE APPROVED BY THE PROJECT ENGINEER PRIOR TO BEGINNING THE TRENCHING WORK, OR AS SOON AS PRACTICABLE.
18. FLOWABLE FILL QUANTITY IS CALCULATED BASED ON A TYPICAL TRENCH SIDE SLOPE OF 1:1. A SIDE SLOPE FLATTER THAN 1:1 (IF REQUIRED TO ENSURE STABILITY AND SAFETY OF THE TRENCHES) MUST BE APPROVED BY THE PROJECT ENGINEER IN THE FIELD PRIOR TO BEGINNING EXCAVATION FOR TRENCHES, OR AS SOON AS PRACTICABLE. THE INTENT IS TO KEEP THE FLOWABLE FILL QUANTITY TO A MINIMUM.
19. FLOWABLE FILL SHALL BE PLACED TO BOTTOM OF THE PAVEMENT, STABILIZED BASE, OR GRANULAR BASE AS DIRECTED BY ENGINEER.

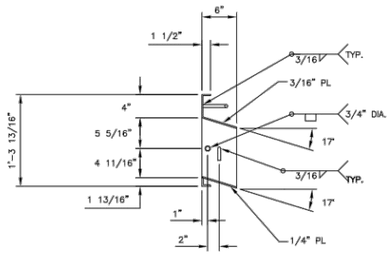


SECTION A-A

CURB TRANSITION

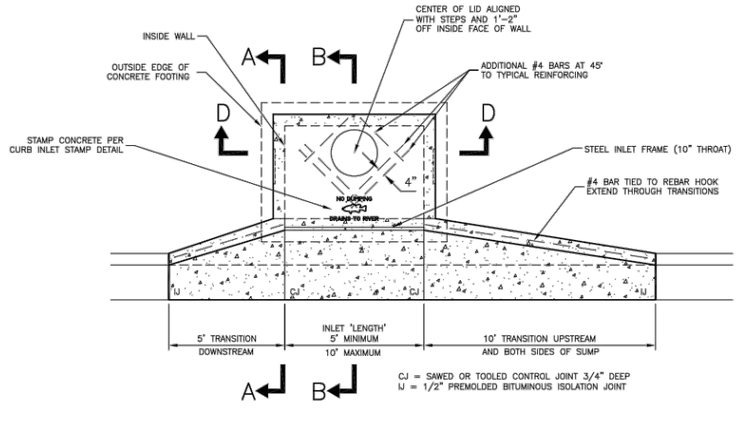


FRONT VIEW



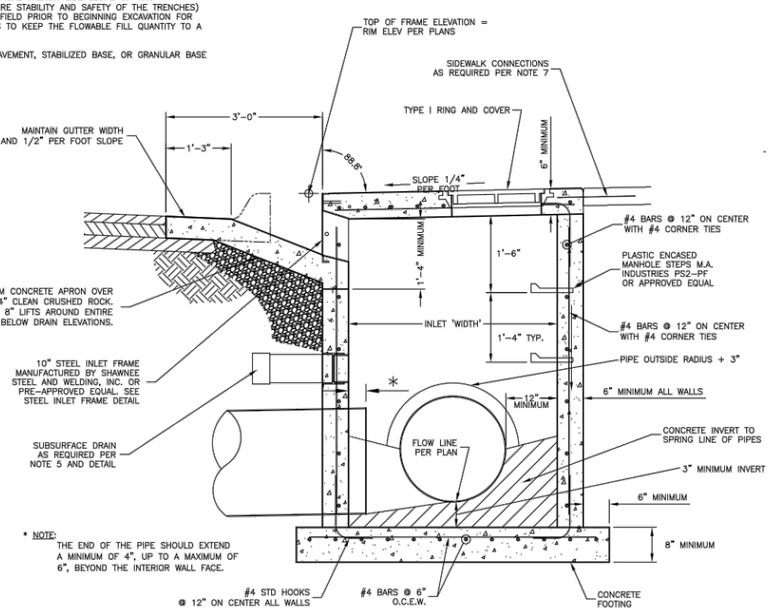
SECTION C-C

STEEL INLET FRAME

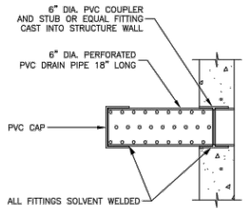


PLAN

STANDARD CURB INLET

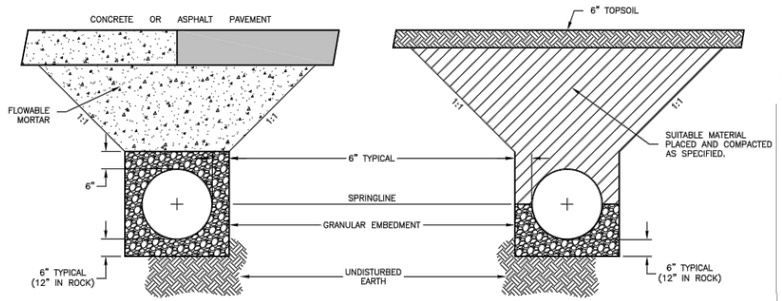


SECTION B-B



SECTION

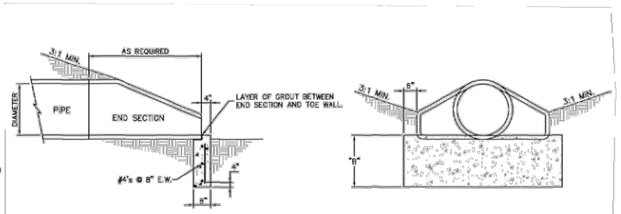
SUBSURFACE DRAIN



UNDER AND WITHIN 2' OF STREET AND SIDEWALK PAVING

OUTSIDE PAVEMENT

TYPICAL TRENCH SECTIONS



SIDE VIEW

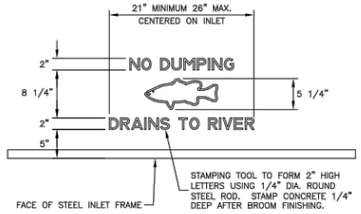
FRONT VIEW

NOTES:
1. THE DEPTH OF THE TOE WALL SHALL BE PER TABLE. IF BEDROCK IS ENCOUNTERED A MINIMUM OF 12" INTO BEDROCK IS REQUIRED.
2. ALL CONCRETE SHALL BE KCMMB-4K.

TABLE

TOE WALL DEPTH	
PIPE DIAMETER	"B"
12" - 21"	18"
24" - 48"	24"
54" - 66"	36"

STANDARD END SECTION



PLAN

CURB INLET STAMP

C.9.3 SHEET 122 OF 143

DATE	BY	REVISION
02-08-13	LJM	CITY ENGINEER'S NAME UPDATED
01-24-13	LJM	TYPICAL TRENCH SECTIONS REVISED AND NOTES ADDED
12-16-10	LJM	TYPICAL TRENCH SECTIONS REVISED AND NOTES ADDED
09-10-09	LJM	REPLACES ALL PREVIOUS VERSIONS OF STORM SEWER DETAILS

CITY OF LAWRENCE, KANSAS
ENGINEERING DIVISION OF PUBLIC WORKS

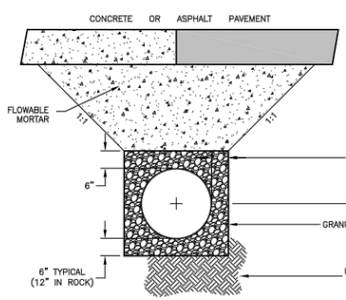
STANDARD DETAILS FOR
STORM SEWER CURB INLETS

1 OF 2

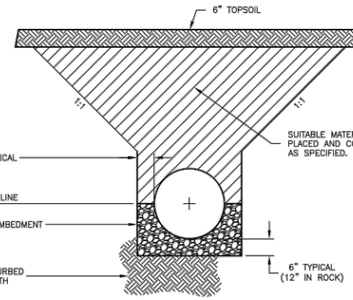
DAVID P. CRONIN, CITY ENGINEER
DAVID L. CORLISS, CITY MANAGER

NOTES

1. STANDARD DRAWINGS SHALL APPLY ONLY TO STRUCTURES WITHIN THE FOLLOWING LIMITS:
   A. INSIDE PLAN DIMENSIONS SHALL NOT EXCEED 40 SQUARE FEET.
   B. WALL HEIGHT SHALL NOT EXCEED 10 VERTICAL FEET.
2. THE MINIMUM WIDTH OF ALL STRUCTURES SHALL BE 4 FEET OR AS REQUIRED FOR PIPE CLEARANCE.
3. STEPS ARE REQUIRED IN ALL STRUCTURES WITH WALL HEIGHT GREATER THAN 4 FEET.
4. FRAMES, LIDS, CASTINGS, STEPS, INVERT, SUBSURFACE DRAINS, PIPE CONNECTIONS AND OTHER ITEMS SHOWN SHALL BE CONSIDERED SUBSIDIARY TO EACH STANDARD STRUCTURE.
5. SUBSURFACE DRAINS ARE REQUIRED IN ALL STRUCTURES IN THE PUBLIC RIGHT-OF-WAY WITH WALL HEIGHT GREATER THAN 3 FEET. ONE DRAIN PER WALL SHALL BE INSTALLED ONLY IN WALLS WHICH ARE PERPENDICULAR TO THE STREET CENTERLINE.
6. JUNCTION BOXES WITH INSIDE PLAN DIMENSIONS EXCEEDING 25 SQUARE FEET SHALL HAVE TYPE II RING AND COVER. JUNCTION BOXES IN PAVED AREAS SHALL HAVE TYPE II RING AND COVER.
7. NO JUNCTION BOX TO BE LOCATED IN PAVEMENT WITHOUT APPROVAL OF THE CITY ENGINEER.
8. ALL FLAT PLATE AND RODS SHALL BE M1020 MERCHANT QUALITY OR A36 HOT ROLLED STEEL.
9. ALL WELDING SHALL CONFORM TO THE PROVISIONS OF THE AWS "STRUCTURAL WELDING CODE."
10. STAMPING TOOLS SHALL BE APPROVED PRIOR TO USE. A FULL SIZE FABRICATION PATTERN MAY BE OBTAINED FROM THE PUBLIC WORKS DEPARTMENT. FOR CAST-IN-PLACE INLETS, A STAMPING TOOL MAY BE BORROWED FROM THE DEPARTMENT PER AN APPROVED SCHEDULE.
11. ALL DIMENSIONS AND SIDE SLOPES SHOWN WITHIN THE "TYPICAL TRENCH SECTION DETAILS" ARE TYPICAL. ANY DEVIATION FROM THESE DIMENSIONS MUST BE APPROVED BY THE PROJECT ENGINEER PRIOR TO BEGINNING THE TRENCHING WORK, OR AS SOON AS PRACTICABLE.
12. FLOWABLE FILL QUANTITY IS CALCULATED BASED ON A TYPICAL TRENCH SIDE SLOPE OF 1:1. A SIDE SLOPE FLATTER THAN 1:1 (IF REQUIRED TO ENSURE STABILITY AND SAFETY OF THE TRENCHES) MUST BE APPROVED BY THE PROJECT ENGINEER IN THE FIELD PRIOR TO BEGINNING EXCAVATION FOR TRENCHES, OR AS SOON AS PRACTICABLE. THE INTENT IS TO KEEP THE FLOWABLE FILL QUANTITY TO A MINIMUM.
13. FLOWABLE FILL SHALL BE PLACED TO BOTTOM OF THE PAVEMENT, STABILIZED BASE, OR GRANULAR BASE AS DIRECTED BY ENGINEER.

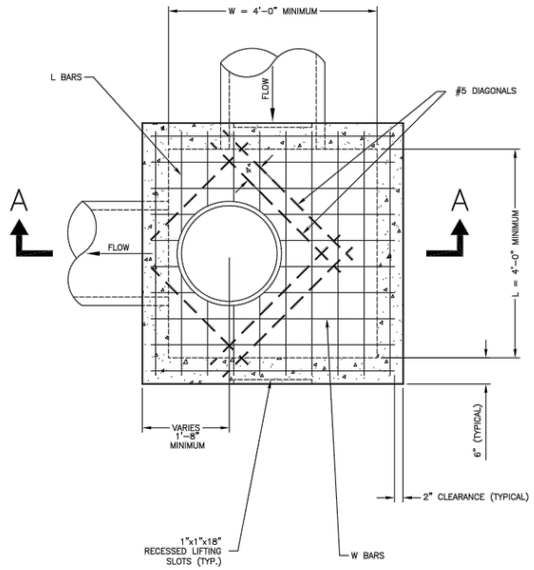


UNDER AND WITHIN 2' OF STREET AND SIDEWALK PAVING

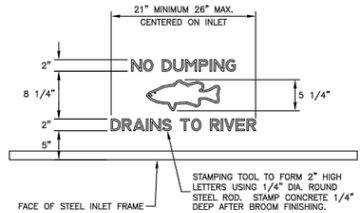


OUTSIDE PAVEMENT

TYPICAL TRENCH SECTIONS

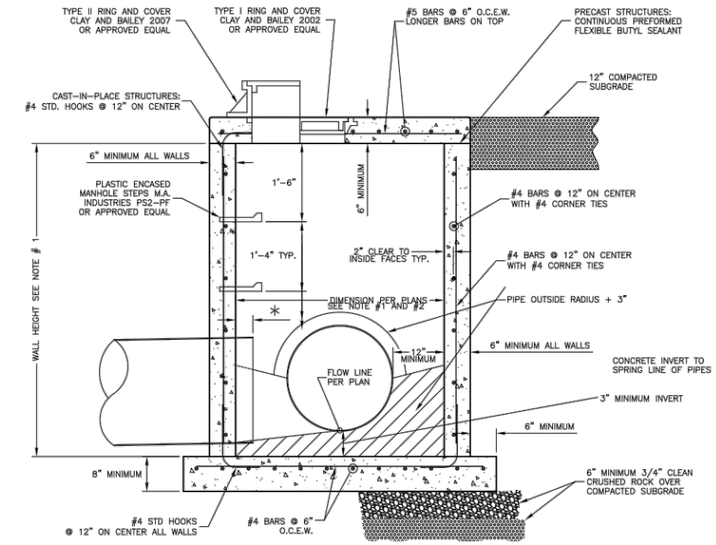


PLAN



PLAN

JUNCTION BOX STAMP



* NOTE: THE END OF THE PIPE SHOULD EXTEND A MINIMUM OF 4", UP TO A MAXIMUM OF 6", BEYOND THE INTERIOR WALL FACE.

TYPICAL SECTION A-A

STANDARD JUNCTION BOX

C.9.4 SHEET 123 OF 143

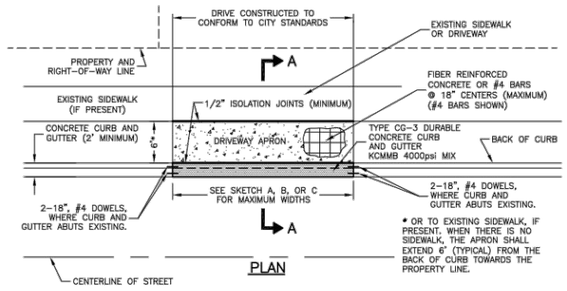
DATE	BY	REVISION
02-08-13	LJM	CITY ENGINEER'S NAME UPDATED
01-24-13	LJM	TYPICAL TRENCH SECTIONS REVISED AND NOTES ADDED
12-16-10	LJM	TYPICAL TRENCH SECTIONS REVISED AND NOTES ADDED
09-10-09	LJM	REPLACES ALL PREVIOUS VERSIONS OF STORM SEWER DETAILS

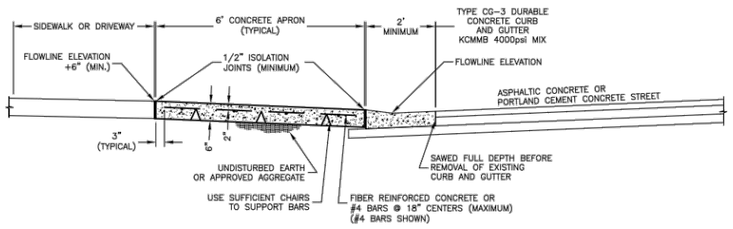
CITY OF LAWRENCE, KANSAS
ENGINEERING DIVISION OF PUBLIC WORKS

STANDARD DETAILS FOR
STORM SEWER JUNCTION BOXES

2 OF 2

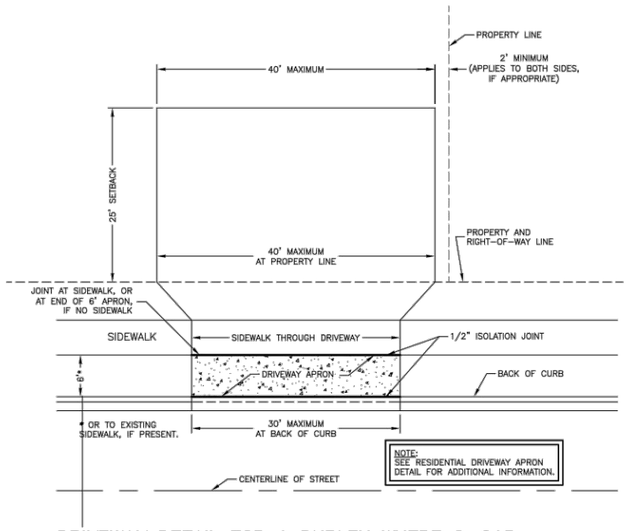
DAVID P. CRONIN, CITY ENGINEER
DAVID L. CORLISS, CITY MANAGER





SECTION A-A

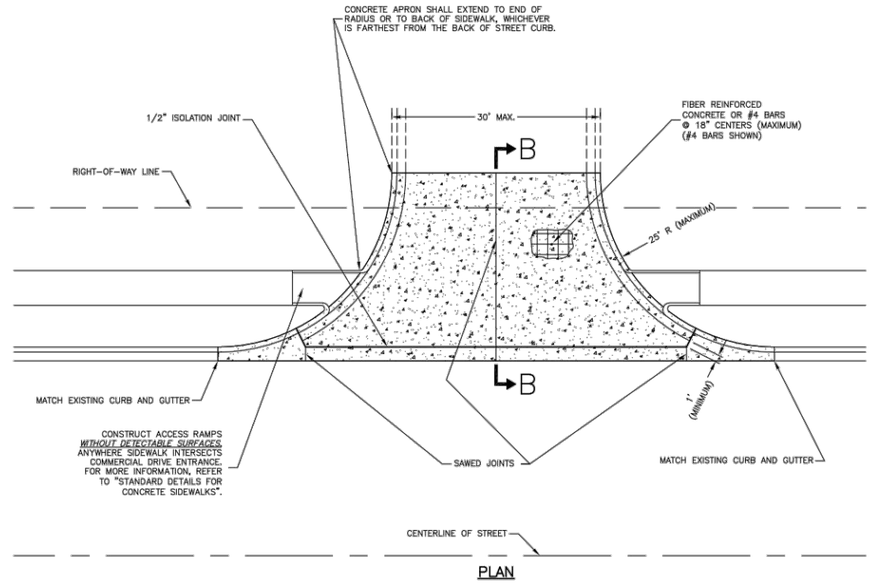
RESIDENTIAL DRIVEWAY APRON

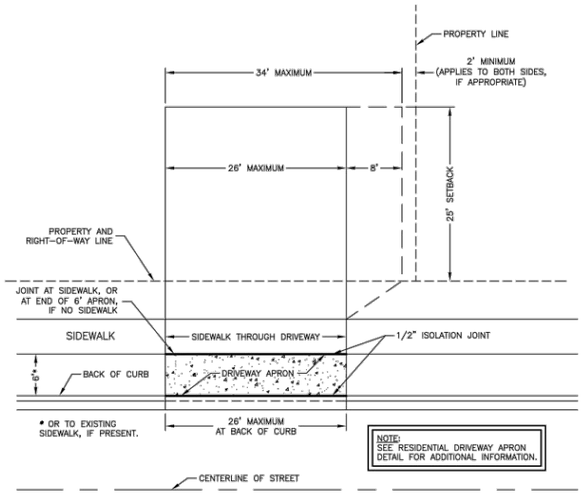


DRIVEWAY DETAIL FOR A DUPLEX WHERE 2-CAR GARAGES ARE SIDE BY SIDE

SCALE : 1"=10'
(SKETCH B)

NOTE: DRIVEWAY APRON MAY BE FLARED, IF DESIRED; HOWEVER, THE MAXIMUM WIDTH AT THE CURB REMAINS AT 30 FEET.

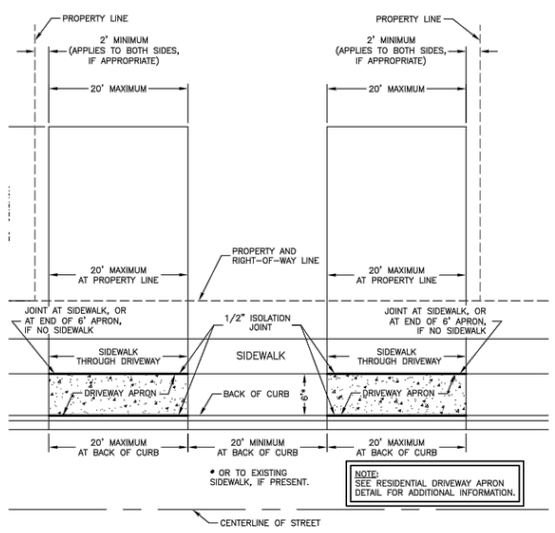




DRIVEWAY DETAIL FOR A SINGLE FAMILY HOME

SCALE : 1"=10'
(SKETCH A)

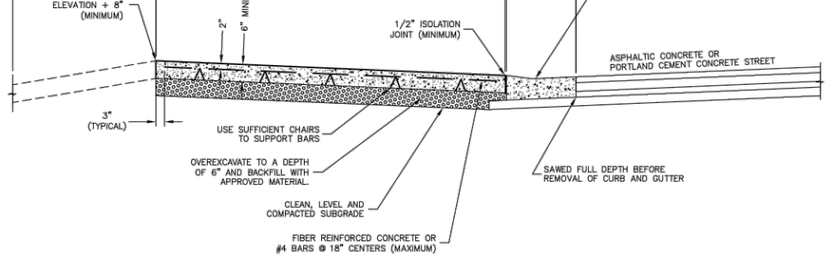
NOTE: DRIVEWAY APRON MAY BE FLARED, IF DESIRED; HOWEVER, THE MAXIMUM WIDTH AT THE CURB REMAINS AT 26 FEET.



DRIVEWAY DETAIL FOR A DUPLEX WHERE 2-CAR GARAGES ARE SEPARATED

SCALE : 1"=10'
(SKETCH C)

NOTE: DRIVEWAY APRON MAY BE FLARED, IF DESIRED; HOWEVER, THE MAXIMUM WIDTH AT THE CURB REMAINS AT 20 FEET.



NOTE: ON DOWN ENTRANCE GRADES,THE DRIVEWAY APRON SHALL ATTAIN AN ELEVATION 8" HIGHER THAN THE FLOWLINE OF THE CURB AND GUTTER BEFORE SLOPING DOWNWARD.
APRON SHALL BE CONSTRUCTED OF CONCRETE CONTAINING "DURABLE" AGGREGATE PER CITY STANDARD SPECIFICATIONS.

SECTION B-B

COMMERCIAL DRIVEWAY APRON

COMMERCIAL DRIVEWAY DETAILS

RESIDENTIAL DRIVEWAY DETAILS

DATE	BY	REVISION
02-08-13	LJM	CITY ENGINEER'S NAME UPDATED
10-21-08	LJM	RESIDENTIAL DRIVEWAY APRON DETAILS REVISED
04-03-08	LJM	REPLACES ALL PREVIOUS VERSIONS OF DRIVEWAY DETAILS

CITY OF LAWRENCE, KANSAS
ENGINEERING DIVISION OF PUBLIC WORKS

STANDARD DETAILS FOR
CONCRETE DRIVEWAYS

DAVID P. CRONIN, CITY ENGINEER
DAVID L. CORLISS, CITY MANAGER

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	125	143
F.A. NO.	TEA-T037(301)			

RECAPITULATION OF SITE QUANTITIES

ITEM NO.	GENERAL DESCRIPTION	UNIT	QUANTITY
1	MOBILIZATION	LS	1
2	REMOVAL OF EXISTING STRUCTURES	LS	1
3	TRAFFIC CONTROL	LS	1
4	CLEARING & GRUBBING	LS	1
5	COMMON EXCAVATION	CY	41
6	CONTRACTOR CONSTRUCTION STAKING	LS	1
7	COMPACTION OF EARTHWORK (TYPE AA)(MR-5-5)	LS	1
8	CURB & GUTTER, COMBINED	LF	178.8
9	GUTTER (CONCRETE VALLEY)	LF	81.2
10	SIDEWALK CONSTRUCTION (4")	SY	570.7
11	SIDEWALK RAMP	EA	4
12	HMA COMMERCIAL GRADE (CLASS A)	TON	36.6
13	CONCRETE PAVEMENT (6") (GRADE 4.0)(AE)	SY	51.3
14	CONCRETE PAVEMENT (7") (GRADE 4.0)(AE)	SY	35.5
15	PAVING BRICK (SPECIAL)	SY	44.9
16	REINFORCING STEEL	LBS	370
17	GRANULAR BASE (AB-3)	SY	145.5
18	STORM SEWER (12")(PVCP)	LF	55
19	STORM SEWER (15")(PVCP)	LF	112
20	INLET (CURB)(SETBACK)	EA	1
21	PRECAST AREA INLET	EA	2
22	FENCE (CHAIN LINK)(6'-0")	LF	344
23	FENCE (CONSTRUCTION)(TEMPORARY)	LF	1,000
24	SIGN POST (1-3/4" PERFORATED SQUARE STEEL TUBE)	LF	6
25	SIGN POST (2-1/4" PERFORATED SQUARE STEEL TUBE)	LF	5
26	SIGN "MOTORCYCLE PARKING ONLY"	EA	1
27	CURB. EDGE (VARIABLE)(AE)(SPECIAL) "TRANSITION"	LF	32
28	CURB. EDGE (VARIABLE)(AE)(SPECIAL) "RIBBON CURB"	LF	108.1
29	2' WIDE GREY GRANITE PEBBLE RING (SPECIAL)	SY	12.9
30	BRICK PAVERS (CIRCULAR WALK)	SY	55.4
31	BICYCLE RACK	EA	3
32	HANDRAIL (STEEL)	LF	126
33	PAVEMENT MARKING (PAINT)(WHITE)(4")	LF	725
34	PAVEMENT MARKING SYMBOL (PAINT)(WHITE)(HANDICAP)	EA	2
35	GEOTEXTILE FABRIC	SF	1,307
36	FURNISHING AND PLANTING MATERIALS	LS	1
37	ROCK EXCAVATION	CY	79
38	MAILBOX INSTALLATION (SET PRICE)	EA	1
39	BUILDING BASE BID 1 - ACCESSIBILITY IMPROVEMENTS (REFER TO "SHEET INDEX SI" FOR WORK RELATED TO THIS ITEM)	LS	1
40	BUILDING BASE BID 2 - EXTERIOR RESTORATION, ROOF RESTORATION, WEATHERIZATION (REFER TO "SHEET INDEX SI" FOR WORK RELATED TO THIS ITEM)	LS	1
41	BUILDING ALTERNATE 1 - INTERIOR RESTORATION (REFER TO "SHEET INDEX SI" FOR WORK RELATED TO THIS ITEM)	LS	1
42	BUILDING ALTERNATE 2 - ROOF INSULATION (REFER TO "5.W.1" FOR WORK RELATED TO THIS ITEM)	LS	1

REMOVAL OF EXISTING STRUCTURES

ITEM NO.	GENERAL DESCRIPTION	UNIT	QUANTITY
1	RAILROAD TIE GUARD	LF	16
2	STORM BOX	EA	1
3	ADA SIGN AND POST (SALVAGE TO CITY)	EA	1
4	CURB & GUTTER, COMBINED	LF	151
5	CONCRETE PARKING AREA (INCLUDES ASSOCIATED CURB & GUTTER)	SY	424.6
6	ASPHALTIC CONCRETE PAVEMENT	SY	141.5
7	CONCRETE SIDEWALK	SY	213.7
8	CONCRETE LOADING DOCK (ASSOCIATED WITH BUILDING)	SY	52.6
9	CONCRETE DRIVEWAY (ASSOCIATED WITH LOADING DOCK)	SY	22.0
10	PAVEMENT MARKING (PAINT)(WHITE)(4")	LF	659
11	PAVEMENT MARKING SYMBOL (PAINT)(WHITE)(HANDICAP)	EA	2

FOR LANDSCAPE QUANTITIES SEE SHEET C.6.1
FOR SUMMARY OF SEEDING QUANTITIES SEE SHEET C.10.9
FOR SUMMARY OF PAVEMENT MARKING QUANTITIES SEE SHEET C.11.1
FOR TRAFFIC CONTROL QUANTITIES SEE SHEET C.12.4
FOR EROSION CONTROL QUANTITIES SEE SHEET C.10.3

DATE	BY

SURVEYED
PLOTTED
INKED
DESIGNED
SQUAD

KANSAS DEPARTMENT OF TRANSPORTATION

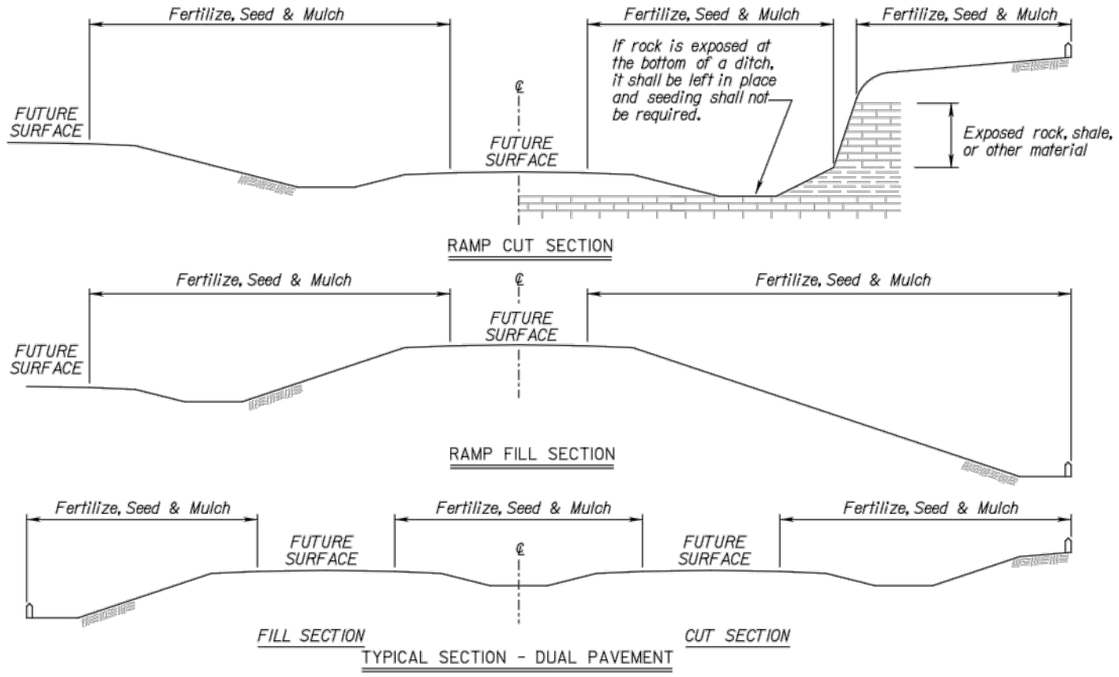
SITE QUANTITIES RECAPITULATION

C.9.6

FHWA APPROVAL XX-XX-XX		APP'D XXX	
DESIGNED	DESIGNED	QUANTITIES	TRACED
DESIGN CK.	DESIGN CK.	QUAN. CK	TRACE CK.

SITE QUANTITIES

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	126	143
F.A. NO.	TEA-T037(301)			



FERTILIZER: A ratio and application rate that equals or exceeds the required minimum rate per acre of N, P_2O_5, K_2O listed in Summary of Quantities will be acceptable.

* – N = Nitrogen Rate of Application
** – P_2O_5 = Phosphorous Rate of Application
*** – K_2O = Potassium Rate of Application

The Contractor will be required to finish areas of excavation, borrow and embankment in accordance with the specifications. Areas that require installation or construction of temporary water pollution control items will be finished in reasonable close conformity to the alignment, grade and cross section shown on the plans or as established by the Engineer.

CLT = Construction Limit Tract. This area is defined by the entire disturbed area of the project that requires seeding and erosion control measures to be placed. Any impervious areas (i.e. pavement, gravel, riprap, etc.) shall not be included in this measurement.

Slope = Defined by the area of the project that requires Class 1 erosion control material to be placed. This area shall be seeded using the Soil Erosion Mix prior to placement of the material. Drilling seed is preferred, however, broadcasting is acceptable if drilling is not possible.

Channel = Defined by the area of the project that requires Class 2 erosion control material to be placed. This area shall be seeded using the Soil Erosion Mix prior to placement of the material. Drilling seed is preferred, however, broadcasting is acceptable if drilling is not possible.

GENERAL NOTES

The entire disturbed area, excepting the paved or surfaced areas, steep rocky slopes and areas of undisturbed native sod or other desirable vegetation shall be fertilized (limed when required), seeded, and mulched. Soil preparation shall conform to the Standard Specifications.

Temporary seeding shall be done during any time of the year that the soil can be cultivated. After the temporary seeding has been completed on the entire project, a permanent seeding shall be done by another project during the normal seeding season.

MULCHING: Mulch shall be spread uniformly over all disturbed areas and punched in the soil, unless otherwise noted on the plans. The rate of application per acre, thickness in place, for the mulching materials is as follows:

1¾ – 2¼ Tons per Acre = 1½" loose depth spread uniformly over acre.

Agricultural products, such as native prairie hay, used for mulching and erosion control practices, excluding wood based mulch, shall meet the North American Weed Free Forage Standards.
Other vegetative mulches are acceptable only with the Engineer's concurrence.

The above rate is a guide. It will be at the discretion of the Engineer to determine what rate is sufficient for adequate protection of newly seeded areas.

The amount of mulch and mulch tacking slurry in the bid quantities is estimated. The total mulch and mulch tacking slurry required shall be determined in the field. The bid item for mulching and mulch tacking slurry shall be paid for according to Standard Specification Section 904.

SUMMARY OF SEEDING QUANTITIES

P.L.S. RATE/ ACRE		ACRES		BID ITEM	QUANTITY	UNIT
CLT	SL/CH	CLT	SL/CH			
				Temporary Fertilizer (* - ** - ***)		LB
				Temporary Seed (Canada Wildrye)		LB
				Temporary Seed (Grain Oats)		LB
				Temporary Seed (Sterile Wheatgrass)		LB
				SoilErosion Mix		LB
				Agricultural Limestone		TON
				Temporary Berm (Set Price)	1	LF
				Temporary Slope Drain		LF
				Temporary Stream Crossing		EACH
				Temporary Inlet Sediment Barrier		EACH
				Silt Fence	260	LF
				Biodegradable Log (****) 9"	80	LF
				Synthetic Sediment Barrier		LF
				Filter Sock (****)		LF
				Temporary Ditch Check (Rock)		CU YD
				Temporary Sediment Basin		CU YD
				Sediment Removal (Set Price)	1	CU YD
				SWPPP Design †	~~1 Lump Sum~~	LS
				SWPPP Inspection †		EACH
				Water Pollution Control Manager †		EACH
				Erosion Control (Class 1, Type Y)		SQ YD
				Erosion Control (Class 2, Type Y)		SQ YD
900 lbs / acre				Mulch Tacking Slurry		LB
2 tons / acre				Mulching (Temporary)		TON
				Water (Erosion Control) (Set Price) †	##	MGAL

~~NOTE: Projects less than 1 acre shall be bid as "Seeding" by the lump sum. All disturbed areas shall be seeded, fertilized and mulched at the listed rate per acre. The acres are estimated.~~

Regreen and Quick Guard are the approved sterile wheatgrass products.

† These Bid Items will not be included when the project is less than 1 acre.
**** List size of material.

SOIL EROSION MIX

PLS RATE	NAME	QTY (lb)
	Total (lb)	

The Soil Erosion Mix is to be placed under the Class 1 and Class 2 (if used) erosion control material.

NO.	DATE	REVISIONS	BY	APP'D
3	6/18/13	Revised Standard	MRM	SHS
2	6/01/13	Revised Standard	MRM	SHS
1	3/01/13	Revised Standard	MRM	SHS

KANSAS DEPARTMENT OF TRANSPORTATION

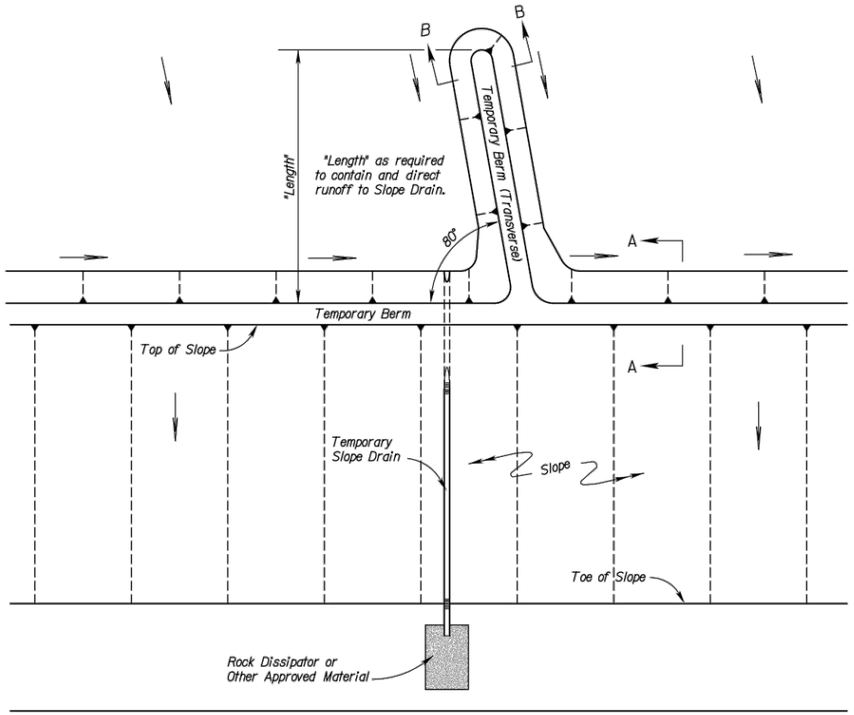
TEMPORARY EROSION AND POLLUTION CONTROL

LA852A

FHWA APPROVAL		5/14/2013	APP'D	Scott H. Shields	
DESIGNED	MRM	DETAILED	MRM	QUANTITIES	CADD MRM
DESIGN CK.	SHS	DETAIL CK.	SHS	QUAN.CK.	CADD CK. SHS

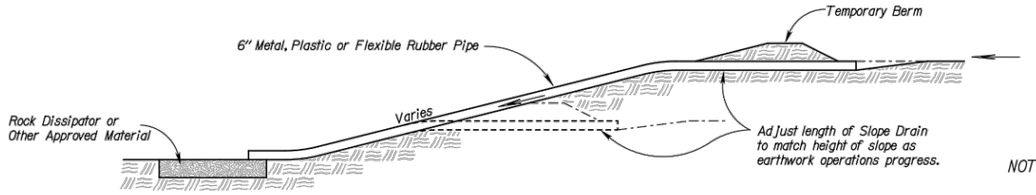
Std. Base File:
Plotted By: melissa | Plot Location: Landscape
File: la852a.dgn
Plot Date: 17-SEP-2013 11:42

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	127	143
F.A. NO.	TEA-T037(301)			



TYPICAL PLAN VIEW OF TEMPORARY BERM AND TEMPORARY SLOPE DRAIN

NO SCALE



TYPICAL PROFILE OF TEMPORARY SLOPE DRAIN

NO SCALE

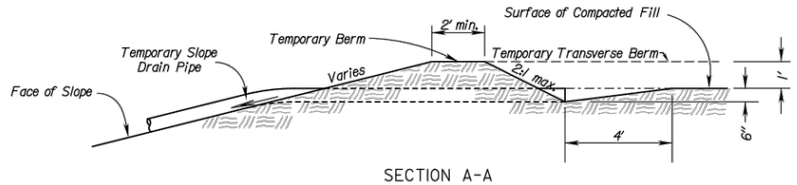
NOTES:

1) Temporary Slope Drain and Temporary Berm may be used on either project foreslopes or project backslopes.

2) Discharge of Slope Drains shall be into stabilized ditch or area, or into Sediment Basin.

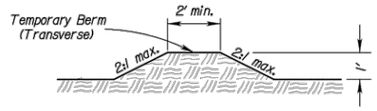
3) Pipe shall be secured in place as approved by Engineer.

4) Temporary Berms under 2,000 feet shall be bid by Set Price.



SECTION A-A

NO SCALE

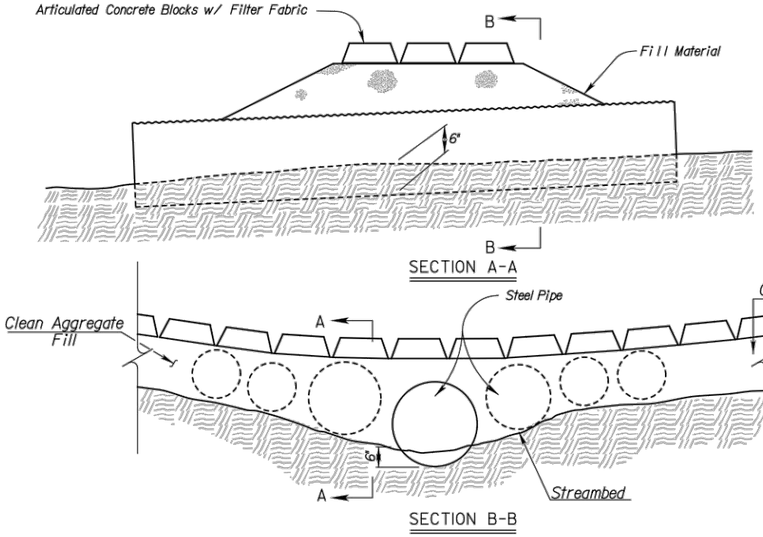


SECTION B-B

NO SCALE

TYPICAL PROFILE OF TEMPORARY BERM

NO SCALE



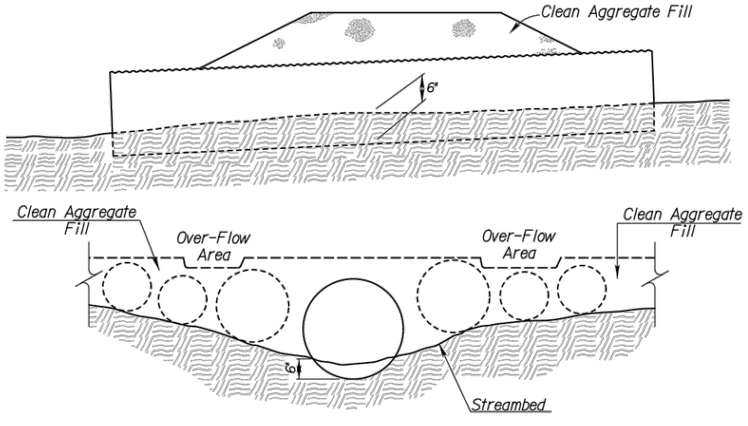
TEMPORARY STREAM CROSSING (ARTICULATED CONCRETE BLOCKS)

NO SCALE

Pipe size may vary

Place 1 pipe buried 6" into stream bottom, in the lowest point of the channel to allow the passage of aquatic organisms, with additional pipes placed along the remainder of the stream channel bottom such that ordinary high water (OHW) flows designated in the Contract Documents shall flow through the pipes without overtopping the crossing.

See KDOT Specifications for more information



SECTION B-B

TEMPORARY STREAM CROSSING (AGGREGATE)

NO SCALE

Pipe size may vary

Place 1 pipe buried 6" into stream bottom, in the lowest point of the channel to allow the passage of aquatic organisms, with additional pipes placed along the remainder of the stream channel bottom such that ordinary high water (OHW) flows designated in the Contract Documents shall flow through the pipes without overtopping the crossing.

See KDOT Specifications for more information

NO.	DATE	REVISIONS	BY	APP'D
3	6/11/13	Revised Standard	MRM	SHS
2	11/01/10	Revised Standard	MRM	SHS
1	10/15/10	Revised Standard	WCL	RDR

KANSAS DEPARTMENT OF TRANSPORTATION

TEMPORARY EROSION AND POLLUTION CONTROL

TEMPORARY SLOPE DRAIN

TEMPORARY STREAM CROSSING (AGGREGATE)

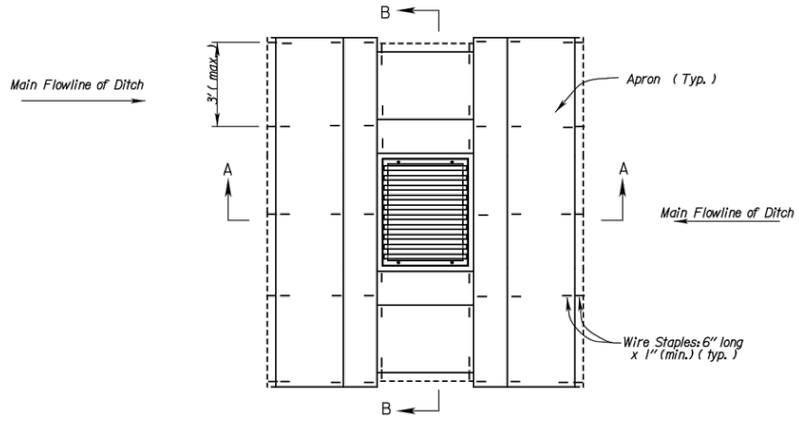
TEMP. STREAM CROSS. (ARTC. CONC. BLOCKS)

LA852B

FHWA APPROVAL	11/08/2010	APP'D	Scott H. Shields
DESIGNED MRM	DETAILED	QUANTITIES	CADD
DESIGN CK. SHS	DETAIL CK.	QUAN.CK.	CADD CK.

Std. Base File:
Plotted By: melissa | Plot Location: Landscape
File: la852b.dgn
Plot Date: 27-JUN-2013 15:58

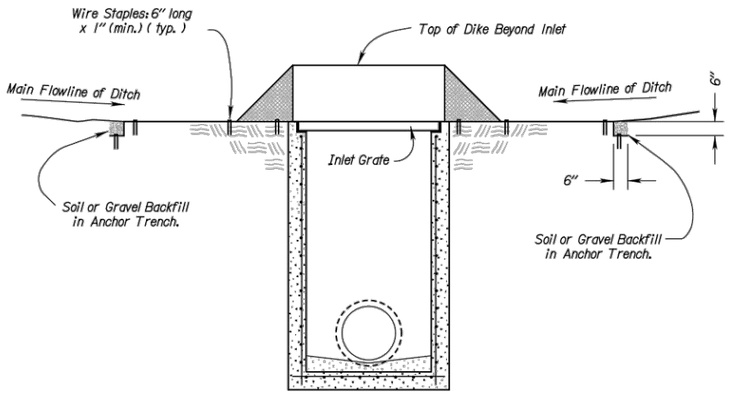
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	128	143
F.A. NO.	TEA-T037(301)			



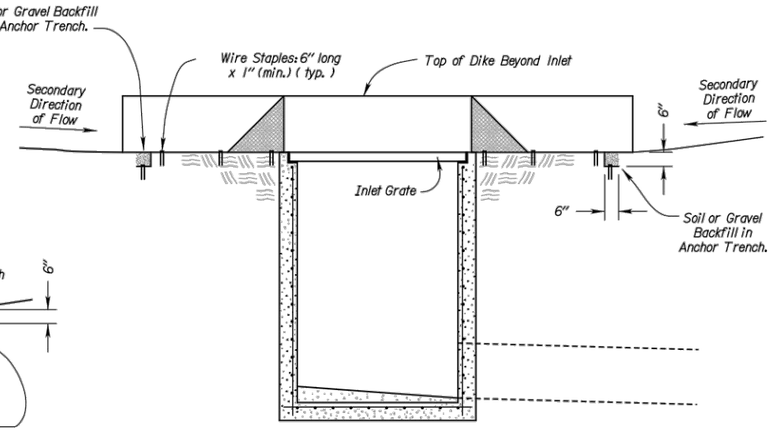
PLAN

TEMPORARY INLET SEDIMENT BARRIER
(TRIANGULAR SILT DIKE METHOD)

NO SCALE



SECTION A - A



SECTION B - B

PLAN

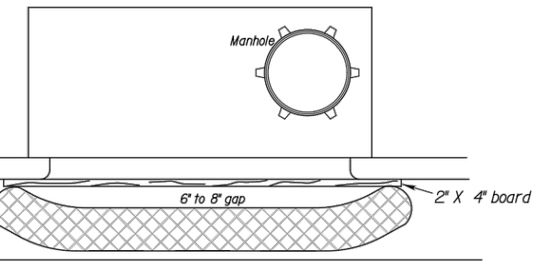
SECTION C - C

TEMPORARY INLET SEDIMENT BARRIER
(SILT FENCE METHOD)

NO SCALE

SILT FENCE:

1. Stakes shall be 4' (min.) long and of one of the following materials:
   a. Hardwood - 1 3/16" x 1 3/16";
   b. Southern Pine (No. 2) - 2 5/8" x 2 5/8";
   c. Steel U, T, L, or C Section - 1.25 lbs. per 1'-0"; or
   d. Synthetic - same strength as wood stakes.
2. Cross pieces shall be of same material as stakes.
3. Attach fence fabric securely on 6" centers (max).
4. Use of high flow material is acceptable.
5. Refer to plan sheets to estimate the length of silt fence required.

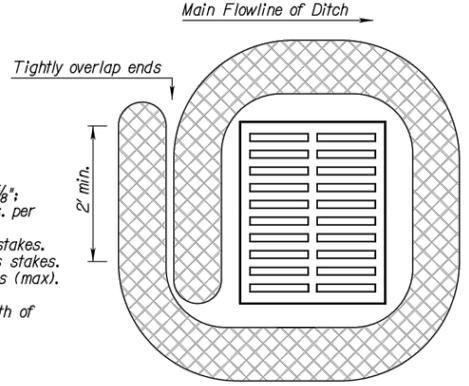


Bags = synthetic net (3mm mesh) or burlap bags

Rock = approximately 1" to 2" diameter

CURB INLET PROTECTION

1. If multiple gravel bags are required, place them in such a way that no gaps are evident.
2. Height of bags (8" minimum diameter) must not be above top of curb.
3. Alternative products may be used other than gravel bags such as the "Gutter Buddy". Products must be approved by the Engineer.
4. Curb inlet protection will be measured and paid for as Filter Sock.



Note: 25% of log shall be keyed into ground during installation.

Stake every 4'

Drop inlet use
1'-6" TO 1'-8" diameter log

BIODEGRADABLE LOG/FILTER SOCK
DROP INLET PROTECTION

Material Requirements
Use 100% shredded mulch or other non-compost biodegradable material as fill for logs.
No compost or fines.
No hay or straw.
Do not use material which prohibits water infiltration.
Log Mesh: Use mesh with 1/4" openings or larger. Mesh must allow water infiltration but also hold fill materal in place.

NO.	DATE	REVISIONS	BY	APP'D
3	6/01/13	Revised Standard	MRM	SHS
2	3/01/13	Revised Standard	MRM	SHS
1	8/01/08	Revised Standard	MRM	SHS

KANSAS DEPARTMENT OF TRANSPORTATION

TEMPORARY EROSION AND POLLUTION CONTROL

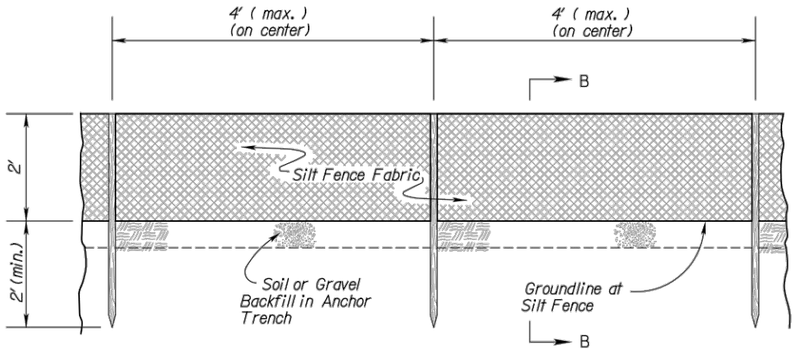
TEMP. INLET SEDIMENT BARRIER (SILT FENCE)
TEMP. INLET SEDIMENT BARRIER (T.S.D.)
CURB INLET PROTECTION
DROP INLET PROTECTION

LA852C

FHWA APPROVAL	5/14/2013	APP'D	Scott H. Shields		
DESIGNED	MRM	DETAILED	MRM	QUANTITIES	CADD
DESIGN CK.	SHS	DETAIL CK.	SHS	QUAN.CK.	CADD CK.

Std. Base File:
Plotted By: melissa | Plot Location: Landscape
File: la852c.dgn
Plot Date: 28-MAY-2013 0852

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	129	143
F.A. NO.	TEA-T037(301)			



TYPICAL ELEVATION

SILT FENCE SLOPE BARRIER

NO SCALE

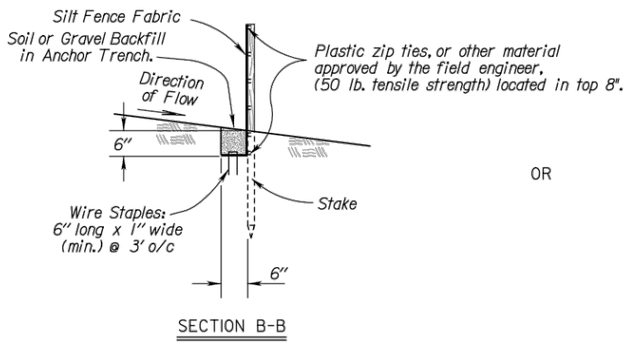
INSTALLATION NOTES

SILT FENCE:

1. Stakes shall be 4' (min.) long and of one of the following materials:
   a. Hardwood - 1 3/16" x 1 3/16";
   b. Southern Pine (No. 2) - 2 5/8" x 2 5/8";
   c. Steel U, T, L, or C Section - 1.25 lbs. per 1'-0"; or
   d. Synthetic - same strength as wood stakes.
2. Cross pieces shall be of same material as stakes.
3. Attach fence fabric securely on 6" centers (max.).
4. Use of high flow material is acceptable.
5. Refer to plan sheets to estimate the length of silt fence required.

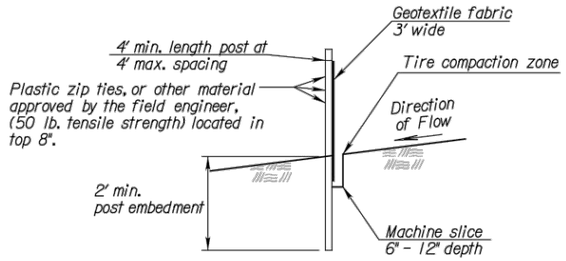
BIODEGRADABLE LOG BARRIERS

1. Place biodegradable logs tightly together.
2. Wood stakes shall be 2" x 2" (nom.).
3. Wire staples shall be 6" long x 1" wide (min.) and placed on 4' (max.) centers.
4. Refer to plan sheets to estimate length of biodegradable log barriers required.
5. Logs should be keyed into the ground at a minimum of 25% of its height.
6. Length of stakes should be 2 times the height of the log at a minimum.



SECTION B-B

OR



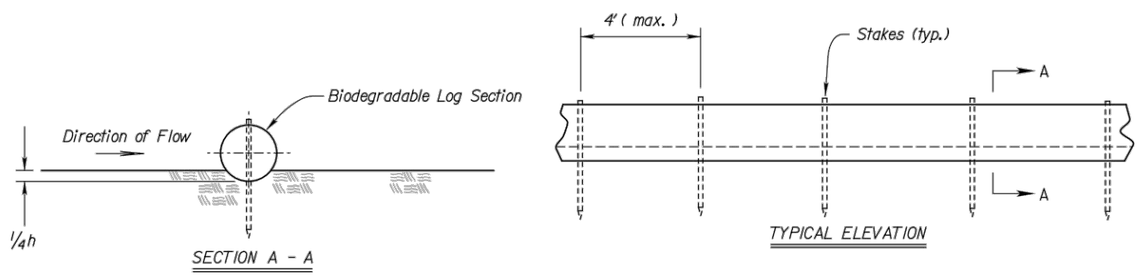
SECTION B-B

Biodegradable Logs, Straw Wattles & Sediment Logs

		PRODUCT		
		9" Sediment Log & 9" Straw Wattle (ft)	12" Sediment Log & 12" Straw Wattle (ft)	20" Sediment Log & 20" Straw Wattle (ft)
Slope Gradient	≤4H:1V	40	60	80
	3H:1V	30	45	60
	2H:1V	20	30	40
	1H:1V	10	15	20

9" and 12" material should only be used in areas which have been seeded and mulched. 20" material should be used in all other areas. Deviations should be approved by the Field Engineer.

BIODEGRADABLE LOG MATERIAL		
	LOW FLOW	HIGH FLOW
9"	Straw/Compost	Excelsior / Wood Chips / Coconut Fiber
12"	Straw/Compost	Excelsior / Wood Chips / Coconut Fiber
18"-20"	Straw/Compost	Excelsior / Wood Chips / Coconut Fiber



SECTION A - A

TYPICAL ELEVATION

BIODEGRADABLE LOG SLOPE BARRIER

NO SCALE

GENERAL NOTES

1) The slope barriers shall be placed along contour lines, with a short section turned upgrade at each end of the barrier. The maximum length of the slope barrier shall not exceed 250 feet, and the barrier ends need to be staggered.
2) At culverts, the Silt Fence shall be placed over the culvert, not through the streambed flowline.
3) Barriers damaged by Contractor's negligence, including improper maintenance or lack of maintenance, shall be repaired immediately by Contractor at no additional cost to KDOT.
4) Agricultural products, such as native prairie hay, used for mulching and erosion control practices, excluding wood based mulch, shall meet the North American Weed Free Forage Standards.

NO.	DATE	REVISIONS	BY	APP'D
1	6/01/13	Revised Standard	MRM	SHS
2	3/01/13	Revised Standard	MRM	SHS
1	9/01/10	Revised Standard	MRM	SHS

KANSAS DEPARTMENT OF TRANSPORTATION

TEMPORARY EROSION AND POLLUTION CONTROL

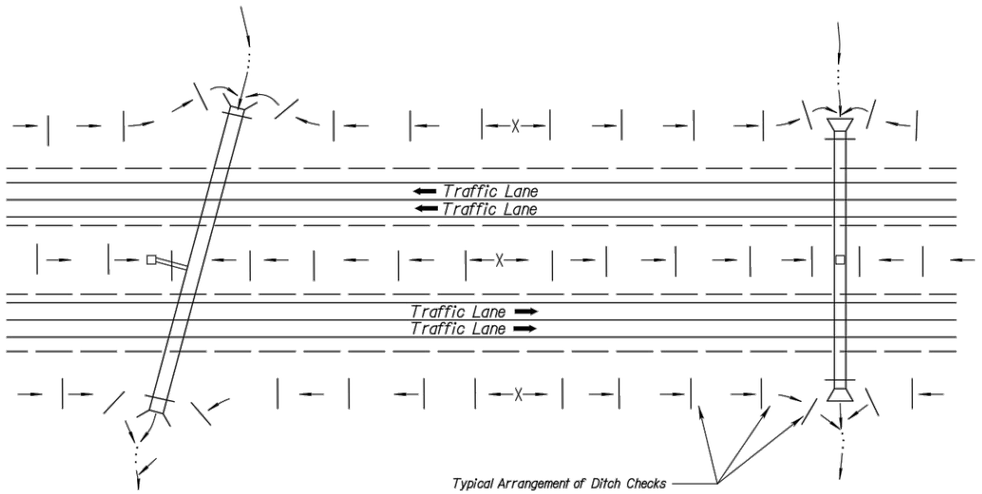
SILT FENCE SLOPE BARRIERS
BIODEGRADABLE LOG SLOPE BARRIERS

LA852D

FHWA APPROVAL		5/14/2013	APP'D	Scott H. Shields	
DESIGNED	MRM	DETAILED MRM	QUANTITIES	CADD	
DESIGN CK.	SHS	DETAIL CK.	QUAN.CK.	CADD CK.	

Std. Base File:		Plot Location: Landscape	
Plotted By: melissa			
File: la852d.dgn			
Plot Date: 28-MAY-2013 0903			

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	130	143
F.A. NO.	TEA-T037(301)			



TYPICAL DITCH CHECK LAYOUT PLAN

NO SCALE

TEMPORARY DITCH CHECK SPACING	
DITCH ℄ SLOPE (%)	SPACING INTERVAL (FEET)
1.0	*200*
2.0	*100*
3.0	*65*
4.0	*50*
5.0	*40*
6.0	*33*
NOTE: Use this spacing for all except Rock Ditch Checks.	

GENERAL NOTES

1) *The choice of ditch check methods is at the option of the Contractor.*
2) *Use only rock checks in situations where the ditch slope exceeds 6 percent.*
3) *Ditch checks damaged by Contractor's negligence, including improper maintenance or lack of maintenance, shall be repaired by Contractor at no extra cost to KDOT.*

Std. Base File:	
Plotted By: *melissa*	Plot Location: *Landscape*
File: *la852e.dgn*	
Plot Date: *14-MAY-2013 14:14*	

NO.	DATE	REVISIONS	BY	APP'D
3	6/01/13	Revised Standard	MRM	SHS
2	9/10/07	Revised Standard	MRM	SHS
1	6/16/05	Revised Standard	WCL	RDR

KANSAS DEPARTMENT OF TRANSPORTATION

TEMPORARY EROSION AND POLLUTION CONTROL

DITCH CHECKS

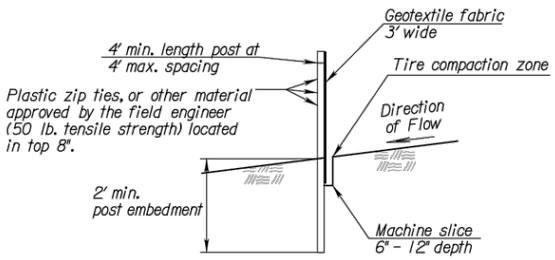
LA852E

FHWA APPROVAL	5/14/2013	APP'D	Scott H. Shields		
DESIGNED	MRM	DETAILED	MRM	QUANTITIES	CADD MRM
DESIGN CK.	SHS	DETAIL CK.	SHS	QUAN.CK.	CADD CK. SHS

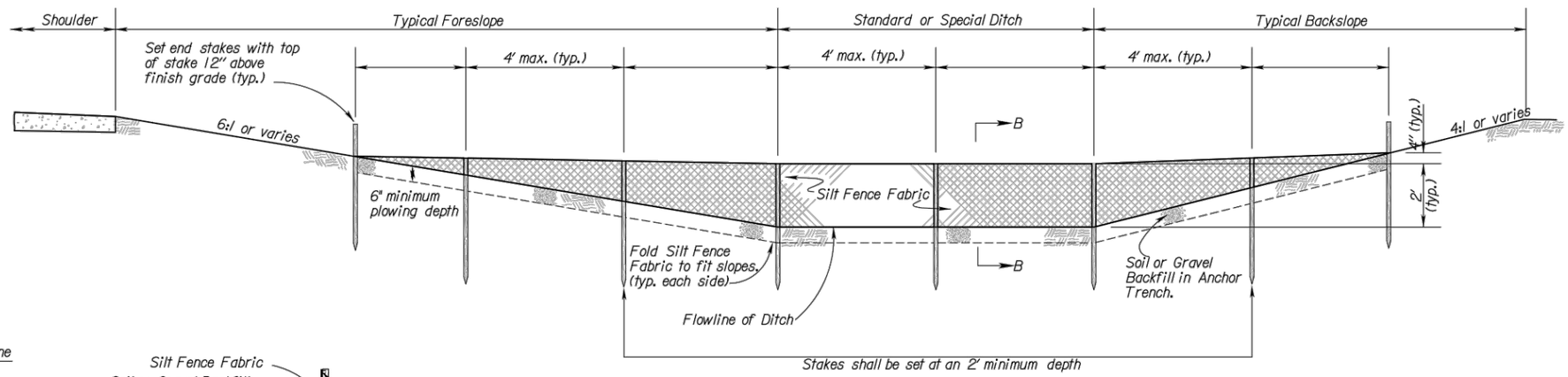
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	131	143
F.A. NO.	TEA-T037(301)			

SILT FENCE:

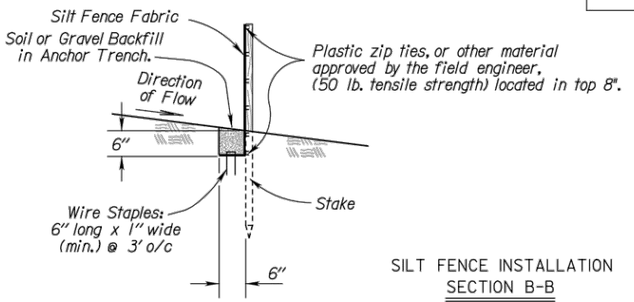
1. Stakes shall be 4' (min.) long and one of the following materials:
   a. Hardwood - 1 3/16" x 1 3/16";
   b. Southern Pine (No. 2) - 2 5/8" x 2 5/8";
   c. Steel U, T, L, or C Section - 1.25 lbs. per 1'-0";
   d. Synthetic - same strength as wood stakes.
2. Cross pieces shall be of same material as stakes.
3. Attach fence fabric securely on 6" centers (max.).
4. Use of high flow material is acceptable.
5. Refer to plan sheets to estimate the length of silt fence required.
6. Use support fencing when tributary area is greater than 2.4 acres or when ditch gradient is greater than 2 percent.
7. Silt fence plowing is acceptable at a 6" minimum depth. Trenching is acceptable in certain cases.



SILT FENCE INSTALLATION
SECTION B-B



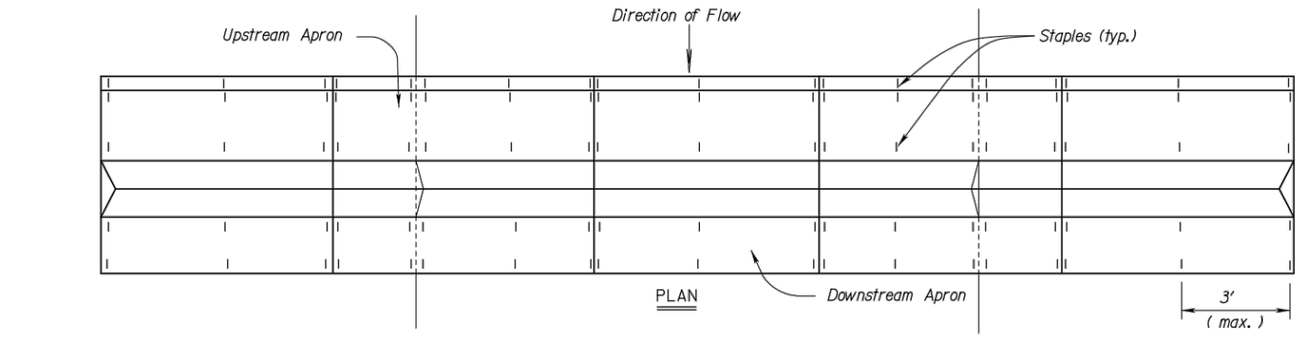
TYPICAL ELEVATION



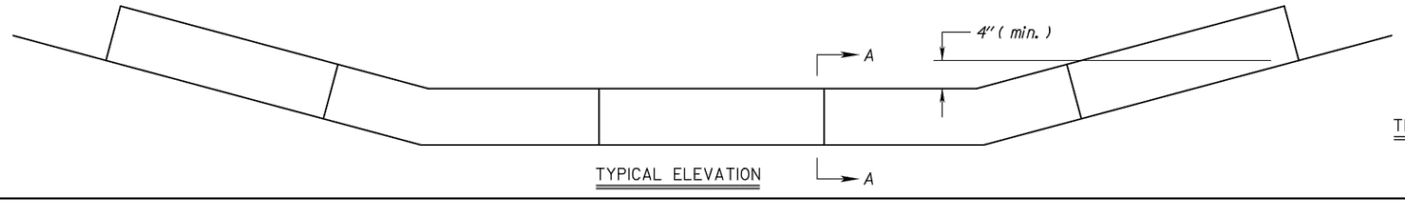
SILT FENCE INSTALLATION
SECTION B-B

SILT FENCE DITCH CHECK

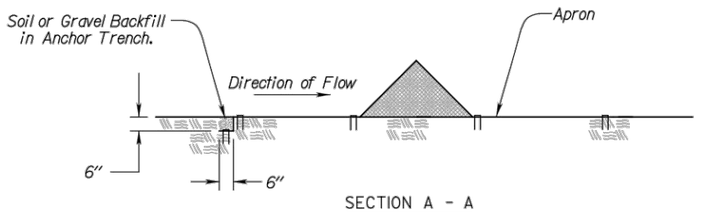
NO SCALE



PLAN



TYPICAL ELEVATION



SECTION A - A

TRIANGULAR SILT DIKE:
1. Place triangular silt dike sections tightly together with apron material overlapping end-to-end by 6".
2. Wire staples shall be 6" long by 1" wide (min).
3. Use as many triangular silt dike sections as necessary to ensure water does not flow around end of ditch check.

TRIANGULAR SILT DIKE DITCH CHECK

NO SCALE

NO.	DATE	REVISIONS	BY	APP'D
3	7/24/13	Revised Standard	MRM	SHS
2	6/01/13	Revised Standard	MRM	SHS
1	3/01/13	Revised Standard	MRM	SHS

KANSAS DEPARTMENT OF TRANSPORTATION

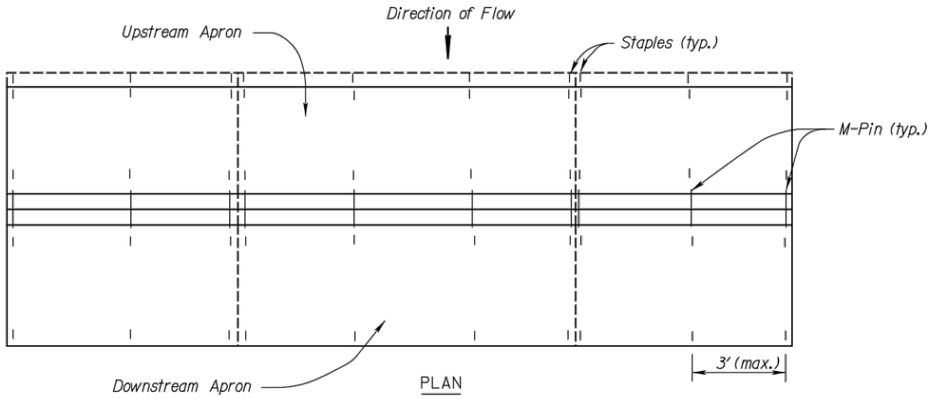
TEMPORARY EROSION AND POLLUTION CONTROL
SILT FENCE DITCH CHECKS
TRIANGULAR SILT DIKE DITCH CHECKS

LA852F

FHWA APPROVAL		5/14/2013	APP'D	Scott H. Shields	
DESIGNED	MRM	DETAILED	MRM	QUANTITIES	CADD
DESIGN CK.	SHS	DETAIL CK.	SHS	QUAN.CK.	CADD CK.

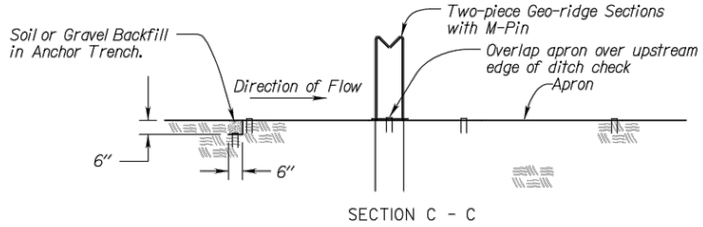
Std. Base File:
Plotted By: melissa | Plot Location: Landscape
File: la852f.dgn
Plot Date: 24-JUL-2013 10:09

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	132	143
F.A. NO.	TEA-T037(301)			

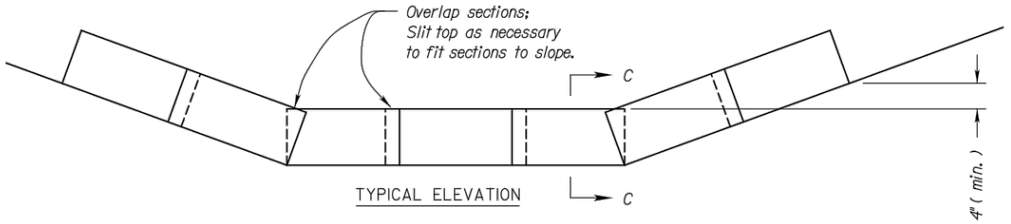


GEO-RIDGE PERMEABLE BERM NOTES

1. Overlap Geo-ridge Berm sections and apron material by 6".
2. Use M-Pins supplied by manufacturer to secure geo-ridge Berm sections.
3. Use as many Geo-ridge Berm sections as necessary to insure water does not flow around end of ditch check.
4. Use silt fence material as the apron to prevent scour above and below the ditch check.
5. Wire Staples shall be 6" long by 1" wide, minimum.



SECTION C - C



TYPICAL ELEVATION

GEO-RIDGE PERMEABLE BERM DITCH CHECK

NO SCALE

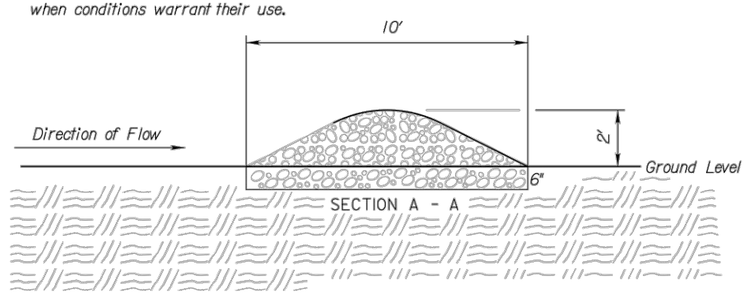
ROCK DITCH CHECK NOTES

1. Rock shall be clean aggregate, D50 = 6".
2. Place rock in such manner that water will flow over, not around ditch check.
3. Do not use rock ditch checks in clear zone.
4. Excavation: The ditch area shall be reshaped to fill any eroded areas. Prior to placement of the rock, the ditch shall be excavated to the dimensions of the Rock Ditch Check and to a minimum depth of 6" (150mm). After placement of the rock, backfill and compact any over excavated soil to ditch grade. This work shall be subsidiary to the bid item Temporary Ditch Check (Rock) (Set Price).
5. Aggregate excavated on site may be used as an alternate to the 6" rock, if approved by the Engineer.
6. The Engineer may approve the use of larger aggregates when conditions warrant their use.

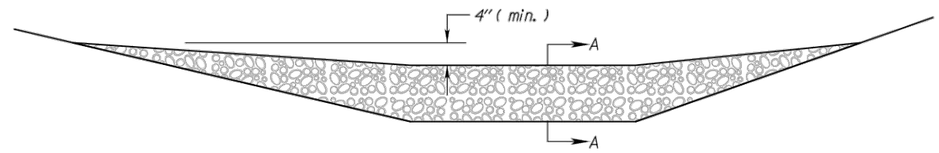
TEMPORARY ROCK DITCH CHECK SPACING

DITCH ℄ SLOPE (%)	SPACING INTERVAL (FEET)
5.0	60
6.0	50
7.0	43
8.0	36
9.0	33
10.0	29

NOTE: Use this spacing only for Rock Ditch Checks.



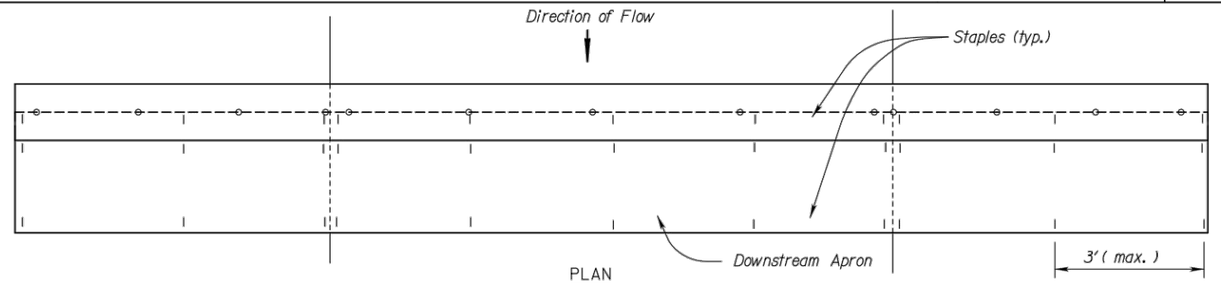
SECTION A - A



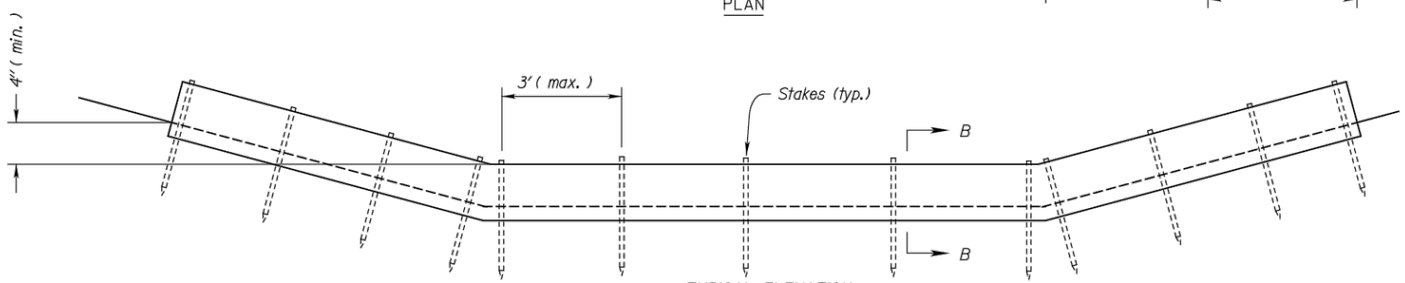
TYPICAL ELEVATION

ROCK DITCH CHECK

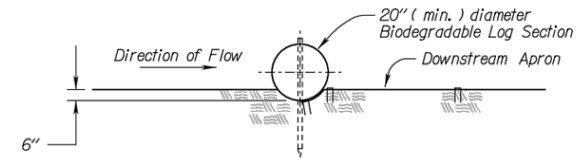
NO SCALE



PLAN



TYPICAL ELEVATION



SECTION B - B

BIODEGRADABLE LOG DIKE NOTES

1. Place biodegradable logs tightly together, with apron material overlapping end-to-end by 6".
2. Wire staples shall be 6" long by 1" wide, minimum.
3. Use as many biodegradable log sections as necessary to insure water does not flow around end of ditch check.
4. Wood stakes shall be 2" x 2" (nom.) x 4' (min.) long.
5. Use silt fence material as the downstream apron to prevent scour below the ditch check.

BIODEGRADABLE LOG DITCH CHECK

NO SCALE

NO.	DATE	REVISIONS	BY	APP'D
	9/01/10	Revised Standard	MRM	SHS
2	12/31/09	Revised Standard	MRM	SHS
1	5/03/06	Revised Standard	MRM	SHS

KANSAS DEPARTMENT OF TRANSPORTATION

TEMPORARY EROSION AND POLLUTION CONTROL

ROCK DITCH CHECKS

BIODEGRADABLE LOG DITCH CHECKS

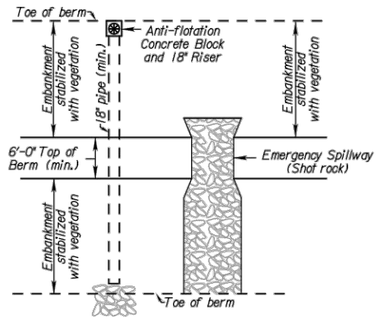
GEO-RIDGE PERMEABLE BERM DITCH CHECKS

LA852G

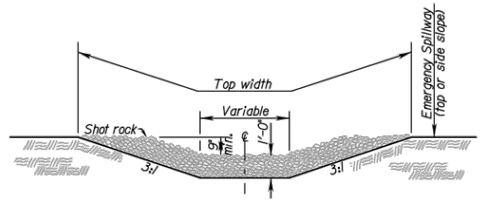
FHWA APPROVAL		9/21/2010	APP'D	Scott H. Shields	
DESIGNED	MRM	DETAILED	MRM	QUANTITIES	CADD
DESIGN CK.	SHS	DETAIL CK.	SHS	QUAN.CK.	CADD CK.

Std. Base File: la852g.dgn
Plotted By: melissa
File: la852g.dgn (la852g)
Plot Date: 27-SEP-2010 09:40
Plot Location: Landscape

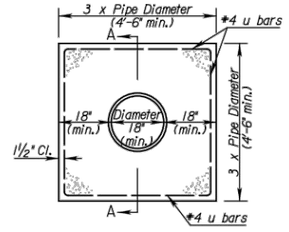
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	133	143
F.A. NO.	TEA-T037(301)			



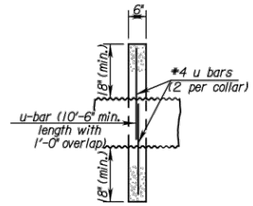
SEDIMENT STORAGE BASIN (PLAN)



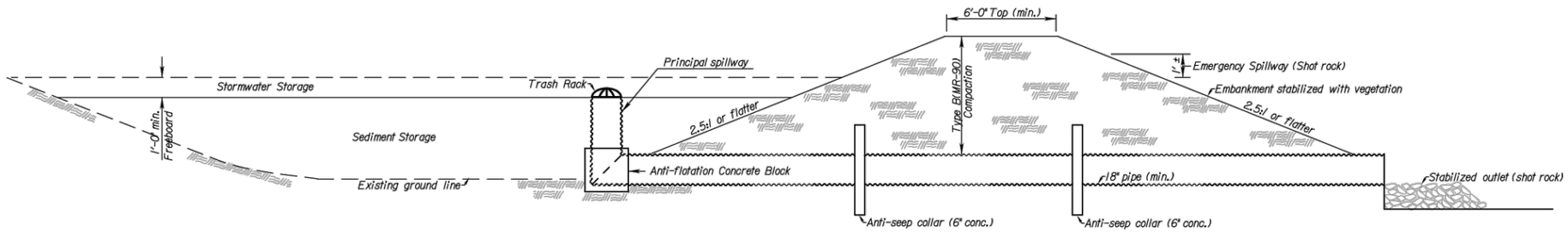
CROSS SECTION (EMERGENCY SPILLWAY)



CONCRETE ANTI-SEEP COLLAR



SECTION A-A



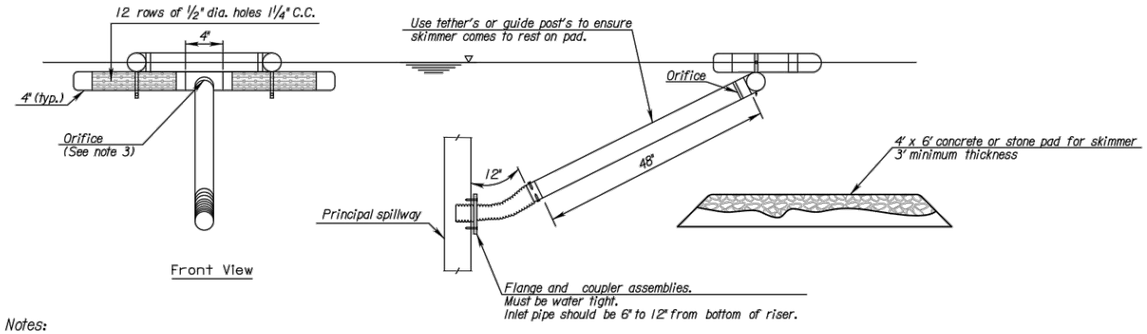
SEDIMENT STORAGE BASIN (ELEVATION)

NOTES:

1) Temporary Sediment Basins shall be constructed at locations as directed by the Engineer or as approved in the SWPPP Schedule. All work and materials necessary, including but not limited to, the fill material, compaction, drainage pipes, aggregates and all other incidentals necessary to construct the basin, shall be paid as "Temporary Sediment Basin".

2) Lengths and top dimensions shall be determined in the field by the Engineer.

3) Skimmer dewatering device required and must be used reguardless the size of the drainage area.



Notes:

1. All P.V.C. pipes are to be schedule 40.
2. HDPE flexible drain pipes is to be attached to the pond outlet structure with water-tight connections.
3. The orifice shall be sized of to provide drawdown time to 2 to 5 days and approved by the engineer.
4. Other skimmer designs maybe used that dewaters from the surface at a controlled rate. The design must be approved by the engineer.

SKIMMER DEWATERING DEVICE

SEDIMENT STORAGE BASIN LOCATIONS

STATION TO STATION	SIDE	REQUIRED STORAGE CAPACITY

NO.	DATE	REVISIONS	BY	APP'D
3				
2	9/3/13	Added Skimmer Dewatering Device	MRM	SHS
1	7/17/13	Revised Standard	MRM	SHS

KANSAS DEPARTMENT OF TRANSPORTATION

TEMPORARY EROSION AND POLLUTION CONTROL

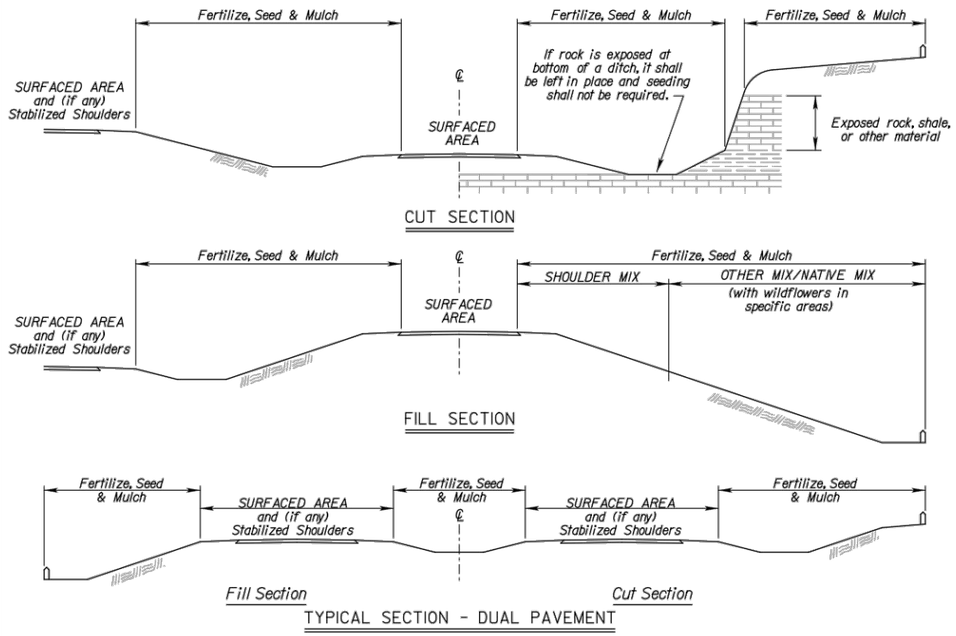
SEDIMENT STORAGE BASIN

LA852H

FHWA APPROVAL		09/24/2013	APP'D	Scott H. Shields	
DESIGNED	BB	DETAILED	BB	QUANTITIES	BB
DESIGN CK.	SHS	DETAIL CK.	SHS	QUAN.CK.	SHS
				CADD	BB
				CADD CK.	SHS

Std. Base File:
Plotted By: rlong | Plot Location: Bridge Design
File: la852h.dgn
Plot Date: 24-SEP-2013 10:15

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	134	143
F.A. NO.	TEA-T037(301)			



TYPICAL SECTION - DUAL PAVEMENT

SEEDING PERIODS

COOL SEASON February 15 to April 20 and August 15 to Sept. 30	WARM SEASON November 15 to June 1
SPECIES	SPECIES
Bluegrasses	Big Bluestem
Bromegrasses	Blue Grama
Canada Wildrye	Buffalograss
Fescues	Eastern Gamagrass
Prairie Junegrass	Indiangrass
Reed Canarygrass	Little Bluestem
Ryegrasses	Sand Bluestem
Sterile Wheatgrass	Sand Dropseed
Tall Dropseed	Sand Lovegrass
Western Wheatgrass	Side Oats Grama
	Switchgrass
	Wildflower Mixes

When "Cool Season" species are mixed with "Warm Season" species, in areas of 1 acre or more, the mixture shall be seeded during the "Warm Season". In areas of less than 1 acre, the mixture of "Cool Season" and "Warm Season" species may be seeded during the "Warm or Cool Seasons".

SODDING PERIODS
March 1 to April 15 and September 1 to November 15

GENERAL NOTES

The entire disturbed area, excepting the paved or surfaced areas, steep rocky slopes and areas of undisturbed native sod or other desirable vegetation shall be fertilized (limed when required), seeded, and mulched. Soil preparation shall conform to the Standard Specifications except as noted below.

All borrow areas shown on the plans are to be fertilized, seeded, and mulched. However, operation in borrow areas where crops are growing may be omitted when requested by the owner.

It shall not be required to till the area to bare ground prior to permanent seeding. If temporary cover has provided stable slopes with no erosion, seed the permanent grasses into the existing cover. If there has been erosion that requires repair prior to seeding, then it may be necessary to regrade the area, resulting in bare ground.

FERTILIZER: A ratio and application rate that equals or exceeds the required minimum rate per acre of N, P_2O_5, K_2O listed in Summary of Seeding Quantities will be acceptable.

MULCHING: Mulch shall be spread uniformly over all disturbed areas and punched in the soil, unless otherwise noted on the plans. The rate of application per acre, thickness in place, for the mulching material is as follows:

1¾ - 2¼ Tons per Acre = 1½" loose depth spread uniformly over acre.

Agricultural products, such as native prairie hay, used for mulching and erosion control practices, excluding wood based mulch, shall meet the North American Weed Free Forage Standards.

Other vegetative mulches are acceptable only with the Engineer's concurrence.

The above rate is a guide. It will be at the discretion of the Engineer to determine what rate is sufficient for adequate protection of newly seeded areas.

The amount of mulch in the quantities is estimated. The total mulch required shall be determined in the field. The bid item for mulching shall be paid for according to Standard Specification Section 904.

NATIVE WILDFLOWER MIX 1

PLS RATE	NAME	QTY (lb)
0.1	Black Eyed Susan	
1.8	Illinois Bundleflower	
0.15	Maximilian Sunflower	
0.4	Purple Prairie Clover	
2.9	Showy Partridge Pea	
0.1	Upright Prairie Coneflower	
0.3	Butterfly Milkweed	
0.1	Stiff Goldenrod	
0.05	Pinnate Prairie Coneflower	
0.1	Lance-leaf Coreopsis	
0.05	New England Aster	
0.2	Pale Purple Coneflower	
0.05	Plains Coreopsis	
0.05	Hoary Verbena	
0.3	Roundhead Lespedeza	
0.4	Thickspike Gayfeather	
0.05	Wild Bergamot	
0.2	Smooth Oxeye	
0.05	Lemon Mint	
7.35	Total (lb)	

NATIVE WILDFLOWER MIX 2

PLS RATE	NAME	QTY (lb)
0.1	Black Eyed Susan	
1.8	Illinois Bundleflower	
0.15	Maximilian Sunflower	
0.4	Purple Prairie Clover	
2.9	Showy Partridge Pea	
0.1	Upright Prairie Coneflower	
0.3	Butterfly Milkweed	
0.4	Dotted Blazing Star	
0.4	Annual Gaillardia	
0.05	Stiff Goldenrod	
0.05	New England Aster	
0.3	Missouri Evening Primrose	
0.05	Plains Coreopsis	
0.15	White Prairie Clover	
0.3	Roundhead Lespedeza	
0.05	Lemon Mint	
0.15	Pitcher Sage	
7.65	Total (lb)	

NATIVE WILDFLOWER MIX 3

PLS RATE	NAME	QTY (lb)
0.15	Black Eyed Susan	
1.9	Illinois Bundleflower	
0.15	Maximilian Sunflower	
0.05	Western Yarrow	
0.5	Black Sampson Echinacea	
0.05	Upright Prairie Coneflower	
0.3	Butterfly Milkweed	
0.4	Dotted Blazing Star	
0.75	Annual Gaillardia	
0.05	Stiff Goldenrod	
0.05	New England Aster	
0.4	Pitcher Sage	
0.01	Plains Coreopsis	
0.15	White Prairie Clover	
0.2	Purple Prairie Clover	
0.4	Leadplant	
0.02	White Heath Aster	
1	Blue Wild Indigo	
0.05	Lemon Mint	
6.58	Total (lb)	

NATIVE WILDFLOWER MIX 4

PLS RATE	NAME	QTY (lb)
1.9	Illinois Bundleflower	
0.4	Maximilian Sunflower	
0.05	Western Yarrow	
1	Black Sampson Echinacea	
0.1	Upright Prairie Coneflower	
0.1	Scarlet Globemallow	
0.4	Dotted Blazing Star	
1.1	Annual Gaillardia (Firewheel)	
0.1	Hoary Vervain	
0.3	White Prairie Clover	
0.4	Purple Prairie Clover	
0.4	Perennial Gaillardia (Blanket Flower)	
0.02	White Heath Aster	
0.05	Lemon Mint	
6.32	Total (lb)	

Package and deliver the wildflower seed separately from the grass seed mix. Package and deliver the Tall Drop Seed separately from the grass seed and the wildflower mix. Place the grass seed (except Tall Drop Seed) in the large seed box and drill (cover) seed 1/8" - 1/4". Place the wildflower seed in a separate seed box and drill (cover) seed 1/16" maximum. Place the Tall Drop Seed in a separate (third) seed box and place the seed (using the seed drill) on the soil surface.
OPTION: Broadcast Tall Drop Seed on the soil surface.

SUMMARY OF SEEDING QUANTITIES

P.L.S. RATE/ACRE SHLDR	P.L.S. RATE/ACRE OTHER	ACRES SHLDR	ACRES OTHER	BID ITEM	QUANTITY	UNIT
				SOD	13,073	SF
				Mulching (Permanent) (Set Price)	1	TON

SHLDR = Shoulder Turf Mix: Includes a 30 foot wide strip along the stabilized shoulder on each side of each traveled way, plus all median areas less than 60 feet wide.

OTHER = All other turf areas except Shoulder, Guardrail, and Native areas usually include the Native Wildflower Mix.

NOTE: Projects of less than 1 acre shall be bid as "Seeding" by the lump sum. All disturbed areas shall be seeded, fertilized and mulched at the listed rate per acre. The acres are estimated.

NO.	DATE	REVISIONS	BY	APP'D
4	6/01/13	Revised Standard	MRM	SHS
3	3/01/13	Revised Standard	MRM	SHS
2	2/24/12	Revised Standard	MRM	SHS
1	6/01/10	Revised Standard	MRM	SHS

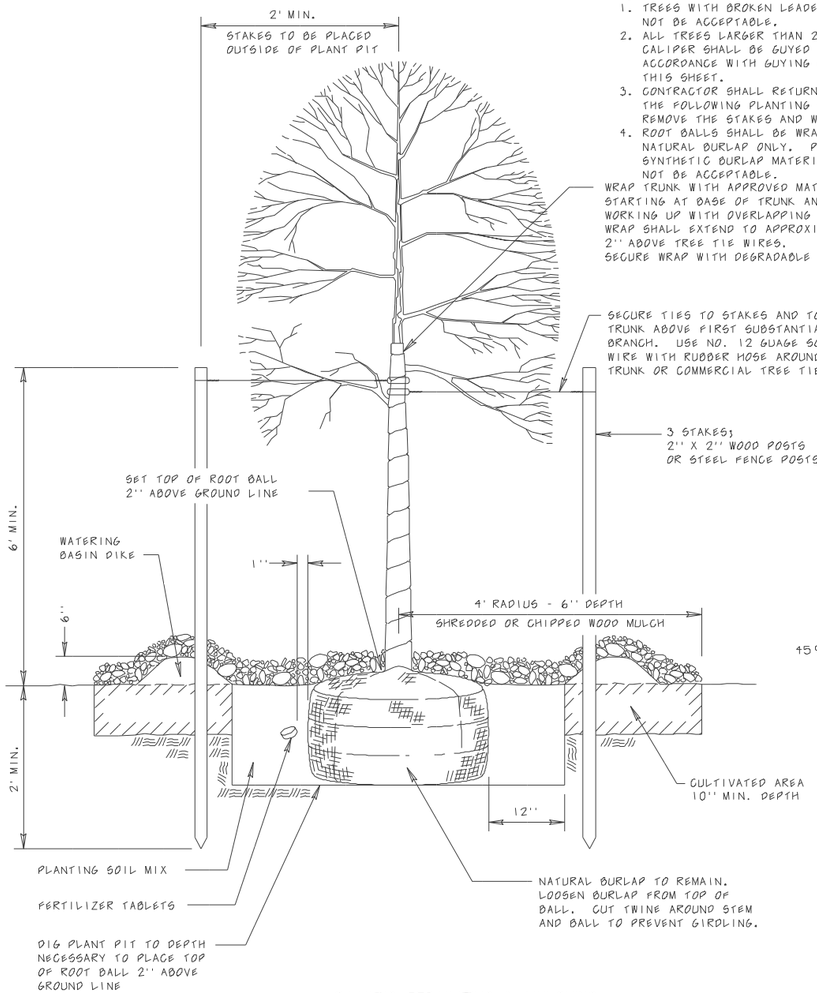
KANSAS DEPARTMENT OF TRANSPORTATION

PERMANENT SEEDING
SUMMARY OF SEEDING QUANTITIES

LA850

FHWA APPROVAL	5/14/2013	APP'D	Scott H. Shields
DESIGNED MRM	DETAILED MRM	QUANTITIES	CADD
DESIGN CK.	DETAIL CK.	QUAN.CK.	CADD CK.

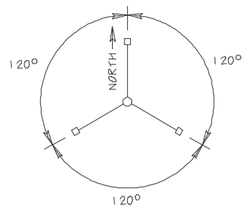
Std. Base File:
Plotted By: melissa
Plot Location: Landscape
File: la850.dgn
Plot Date: 14-MAY-2013 14:00



STAKING, FERTILIZING & MULCHING
DECIDUOUS TREES 1¼'' TO 2'' CALIPER

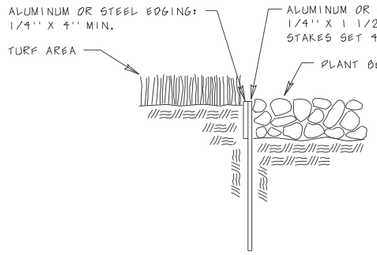
NO SCALE

NOTES:
1. TREES WITH BROKEN LEADERS WILL NOT BE ACCEPTABLE.
2. ALL TREES LARGER THAN 2'' CALIPER SHALL BE GUYED IN ACCORDANCE WITH GUYING DETAIL, THIS SHEET.
3. CONTRACTOR SHALL RETURN AFTER THE FOLLOWING PLANTING SEASON TO REMOVE THE STAKES AND WRAPPING.
4. ROOT BALLS SHALL BE WRAPPED IN NATURAL BURLAP ONLY. PLASTIC OR SYNTHETIC BURLAP MATERIAL WILL NOT BE ACCEPTABLE.



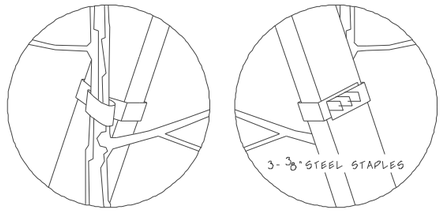
PLAN VIEW FOR 3-POINT STAKING AND GUYING

NO SCALE



PLANT BED EDGING DETAIL

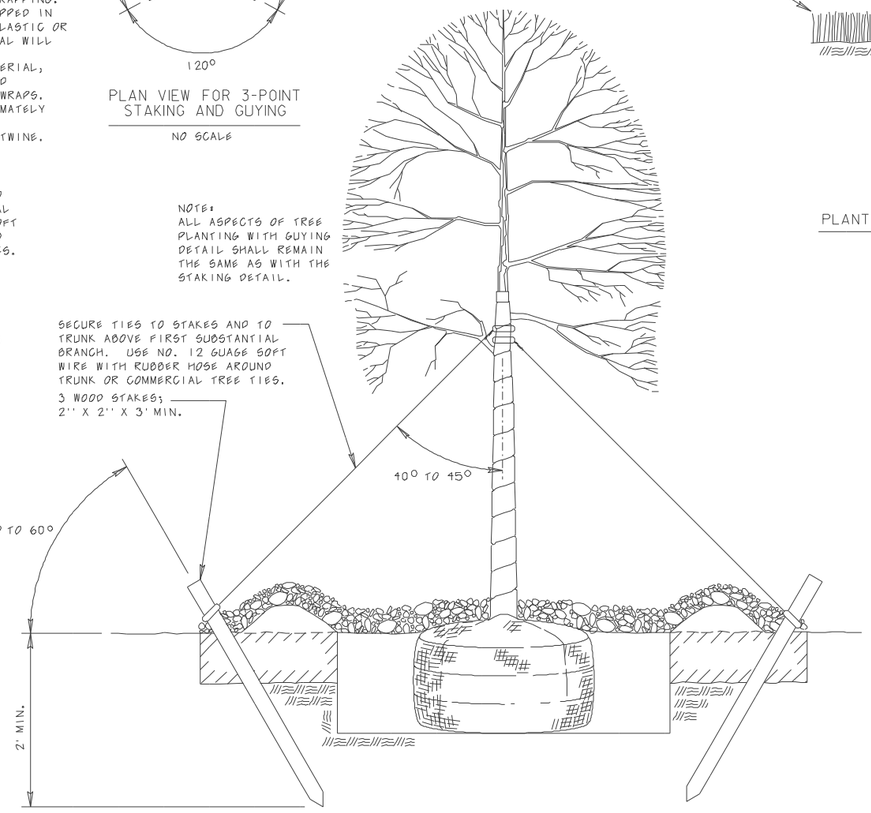
NO SCALE



TREE TIE DETAIL

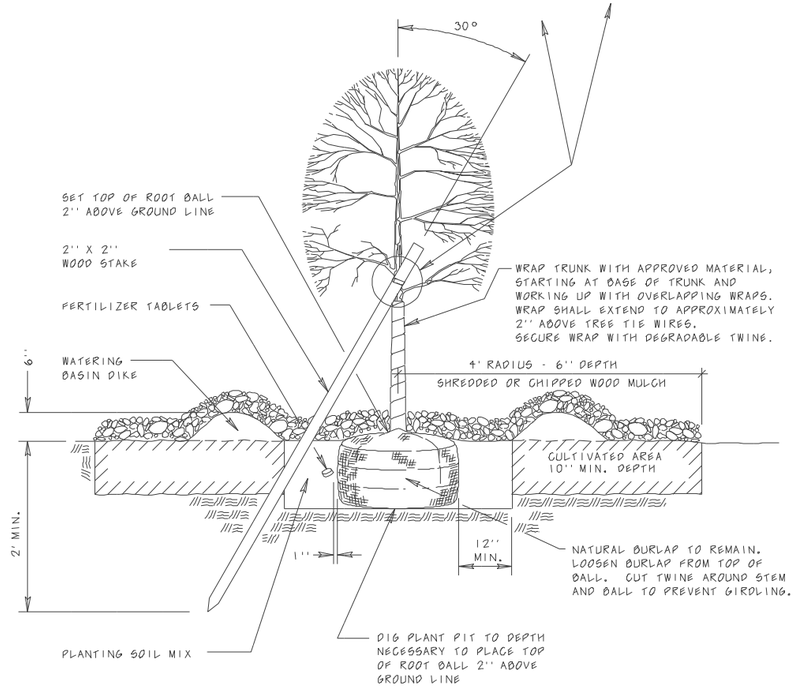
NOTE:
1-1'' X 15'' MIN. VINYL IMPREGNATED WOVEN NYLON TIE PER TREE. OTHER TREE TIE METHODS AND MATERIALS MAY BE USED IF APPROVED BY THE ENGINEER. TIE STAKE TO TRUNK ABOVE FIRST SUBSTANTIAL BRANCH.

NOTE:
ALL ASPECTS OF TREE PLANTING WITH GUYING DETAIL SHALL REMAIN THE SAME AS WITH THE STAKING DETAIL.



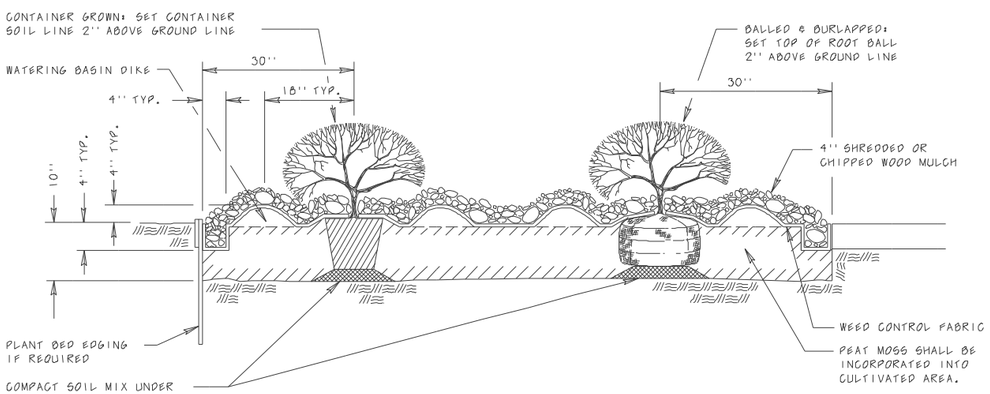
GUYING
DECIDUOUS TREES LARGER THAN 2'' CALIPER
AND ALL EVERGREEN TREES LARGER THAN 6' TALL

NO SCALE



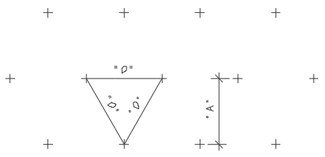
STAKING, FERTILIZING & MULCHING
DECIDUOUS TREES LESS THAN 1¼'' CALIPER

NO SCALE



SHRUB PLANTING DETAIL

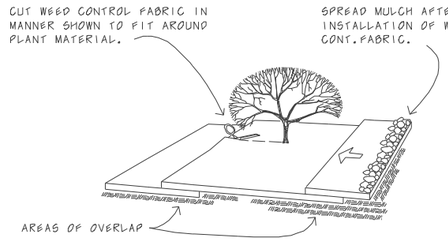
NO SCALE



SPACING "D"	ROW "A"	NUMBER OF PLANTS	AREA
6" O.C.	5.2"	4.61	1 SQ.FT.
12" O.C.	10.4"	1.15	1 SQ.FT.
18" O.C.	15.6"	5.12	10 SQ.FT.
24" O.C.	20.8"	2.91	10 SQ.FT.
30" O.C.	26.0"	1.85	10 SQ.FT.
36" O.C.	31.2"	1.28	10 SQ.FT.

PLANT SPACING CHART

POTTED VINES & GROUND COVER PLANTS SHALL BE AT LEAST ONE YEAR OLD AND SHALL HAVE BEEN GROWN IN POTS LONG ENOUGH TO INSURE SUFFICIENT ROOT GROWTH TO HOLD SOIL IN PLACE AND RETAIN THE ORIGINAL SHAPE WHEN REMOVED FROM THE POT. VINES SHALL HAVE A MINIMUM OF 4 RUNNERS, 12" LONG.



INSTALLATION OF WEED CONTROL FABRIC DETAIL

NO SCALE

NO.	DATE	REVISIONS	BY	APP'D
3				
2				
1	5/10/99	Revised Standard	WCL	RDR

KANSAS DEPARTMENT OF TRANSPORTATION

ROADSIDE IMPROVEMENT PLANTING DETAILS

LA860

F.H.W.A. APPROVAL	5/20/99	APP'D	Richard D. Ross
DESIGNED WCL	DETAILED WCL	QUANTITIES	TRACED WCL
DESIGN CK. RDR	DETAIL CK. RDR	QUAN.CK.	TRACE CK. RDR

SUMMARY OF PAVEMENT MARKINGS

LOCATION	4" Solid WHITE Edge Line	6" Solid WHITE Edge Line	6" Broken WHITE Lane Line	6" Broken WHITE Lane Line (PCP)	6" Dotted WHITE Extension Line	6" Broken WHITE Lane Drop Line	6" Solid WHITE Lane Line	8" Broken WHITE Lane Drop Line	8" Solid WHITE Gore Line	8" Dotted WHITE Extension Line	12" Solid WHITE Diagonal Line	12" Solid WHITE Chevron Line	12" Solid WHITE Type I Crosswalk Line	24" Solid WHITE Type II Crosswalk Line	24" Solid WHITE Stop Line	4" Solid YELLOW Edge Line	4" Solid YELLOW Double Line	4" Solid YELLOW Line	4" Broken YELLOW Line	6" Solid YELLOW Edge Line	12" Solid YELLOW Diagonal Line
TOTALS																					

SUMMARY OF WORD & SYMBOL MARKINGS

LOCATION							STOP	ONLY	X-ING	SCHOOL											
WEST PARKING LOT						1															
TOTALS						1															

NOTE: FOR SPECIFIC PAVEMENT MARKING DETAILS AND DIMENSIONS SEE PLAN SHEETS

NOTE: ALL TOTALS REFLECT ACTUAL QUANTITY OF PAVEMENT MARKING MATERIALS REQUIRED.

RECAPITULATION OF QUANTITIES

ITEMS	TOTAL	UNITS
PAVEMENT MARKING (MULTI-COMPONENT)(WHITE)(4")		FT
PAVEMENT MARKING (MULTI-COMPONENT)(WHITE)(6")		FT
PAVEMENT MARKING (MULTI-COMPONENT)(WHITE)(8")		FT
PAVEMENT MARKING (MULTI-COMPONENT)(WHITE)(12")		FT
PAVEMENT MARKING (MULTI-COMPONENT)(YELLOW)(4")		FT
PAVEMENT MARKING (MULTI-COMPONENT)(YELLOW)(6")		FT
PAVEMENT MARKING (MULTI-COMPONENT)(YELLOW)(12")		FT
PAVEMENT MARKING (THERMOPLASTIC)(WHITE)(4")		FT
PAVEMENT MARKING (THERMOPLASTIC)(WHITE)(6")		FT
PAVEMENT MARKING (THERMOPLASTIC)(WHITE)(8")		FT
PAVEMENT MARKING (THERMOPLASTIC)(WHITE)(12")		FT
PAVEMENT MARKING (THERMOPLASTIC)(YELLOW)(4")		FT
PAVEMENT MARKING (THERMOPLASTIC)(YELLOW)(8")		FT
PAVEMENT MARKING (THERMOPLASTIC)(YELLOW)(12")		FT
PAVEMENT MARKING (EPOXY)(WHITE)(4")	1,020	FT
PAVEMENT MARKING (EPOXY)(WHITE)(6")		FT
PAVEMENT MARKING (EPOXY)(WHITE)(8")		FT
PAVEMENT MARKING (EPOXY)(WHITE)(12")		FT
PAVEMENT MARKING (EPOXY)(YELLOW)(4")		FT
PAVEMENT MARKING (EPOXY)(YELLOW)(6")		FT
PAVEMENT MARKING (EPOXY)(YELLOW)(12")		FT
PAVEMENT MARKING (INTERSECTION GRADE)(WHITE)(12")		FT
PAVEMENT MARKING (INTERSECTION GRADE)(WHITE)(24")		FT
PAVEMENT MARKING (INTERSECTION GRADE)(YELLOW)(12")		FT
PAVEMENT MARKING SYMBOL (INTERSECTION GRADE)(WHITE)(RIGHT ARROW)		EACH
PAVEMENT MARKING SYMBOL (INTERSECTION GRADE)(WHITE)(LEFT ARROW)		EACH
PAVEMENT MARKING SYMBOL (INTERSECTION GRADE)(WHITE)(ONLY)		EACH
PAVEMENT MARKING SYMBOL (INTERSECTION GRADE)(WHITE)( )		EACH
PAVEMENT MARKING SYMBOL (INTERSECTION GRADE)(WHITE)( )		EACH
PAVEMENT MARKING SYMBOL (INTERSECTION GRADE)(US-SHIELD)( )		EACH
PAVEMENT MARKING SYMBOL (INTERSECTION GRADE)(K-SHIELD)( )		EACH
PAVEMENT MARKING SYMBOL (INTERSECTION GRADE)(I-SHIELD)( )		EACH
PAVEMENT MARKING (PATTERNED COLD PLASTIC)(WHITE)(6")		FT
PAVEMENT MARKING (PATTERNED COLD PLASTIC)(WHITE)(8")		FT
PAVEMENT MARKING (PATTERNED COLD PLASTIC)(WHITE)(12")		FT
PAVEMENT MARKING REMOVAL	395	FT

NOTE:
WORDS & SYMBOLS SHALL CONFORM TO THE LATEST EDITION OF "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKINGS" PRINTED BY THE U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION.

PRIOR TO COMMENCEMENT OF PAVEMENT MARKING WORK THE ENGINEER WILL ESTABLISH THE LIMITS FOR "NO PASSING" ZONES. THESE LIMITS SHALL BE USED FOR THE LOCATION OF "NO PASSING" LINES AND FOR THE COMPUTATION OF ACTUAL MARKING QUANTITIES FOR THIS LINE TYPE.

NO.	DATE	REVISIONS	BY	APP'D
2	5/25/12	Added Line Types, Symbols, and Shields	B.A.H.	B.D.G.
1	7/26/05	New FHWA Approval Date	J.F.F.	B.D.G.

KANSAS DEPARTMENT OF TRANSPORTATION

SUMMARY AND RECAPITULATION OF PAVEMENT MARKING QUANTITIES

TE311

FHWA APPROVAL		5/25/2012	APP'D	Brian D. Gower	
DESIGNED	J.F.F.	DETAILED	J.F.F.	QUANTITIES	TRACED
DESIGN CK.	B.D.G.	DETAIL CK.	B.D.G.	QUAN. CK.	TRACE CK.

1) Design Speed: Those items delegated to temporary traffic control should be designed and installed using the posted/legal speed of the roadway prior to work starting.

2) Minimum lane width: Lane widths shall be a minimum of 11' (measured between centerlines of pavement markings) or as shown on the plans, or as directed by the engineer. A lane width less than 11' may require restricted roadway width signing.

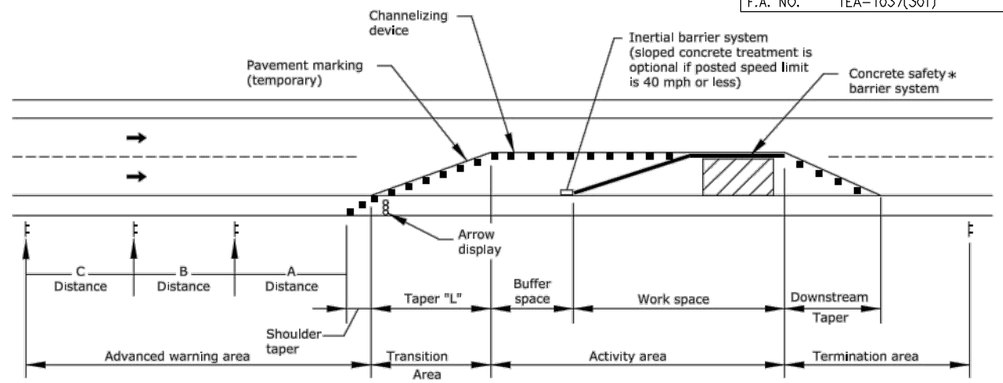
3) Consideration should be made to seperate pedestrian and, if needed, bicycle movements from both work site activity and vehicular traffic. Unless a reasonable safe route that does not involve crossing the roadway can be provided, pedestrians should be appropriately directed with advance signing that encourages them to cross to the opposite side of the roadway. In urban and suburban areas with high vehicular traffic volumes, these signs should be placed at intersections (rather than midblock locations) so that pedestrians are not confronted with midblock work sites that will induce them to attempt skirting the work site or making a midblock crossing.

4) When existing pedestrian facilities are disrupted, closed, or relocated, the temporary facilities shall be detectable and include accessiblity features consistent with the features present in the existing pedestrian facility.

5) When the driving surface open to traffic is milled, is a temporary surface made of loose material, or when directed by the engineer use the W8-15 (Grooved Pavement) or W8-7(Loose Gravel) a "C" distance after the W20-1 (Road Work Ahead) on mainline approaches. Signs may be used with the W8-15p motorcycle plaque as directed by the engineer. Display signs in advance of the condition as long as the condition is present.

6) Alternative temporary rumble strip options may be available. Please contact the Temporary Traffic Control Unit for more information at 785-296-0355 or 785-296-1183.

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	137	143
F.A. NO.	TEA-T037(301)			



TYPICAL WORK ZONE COMPONENTS

* When concrete barrier system is used, portable channelizing devices are not needed along the tangent barrier section.

Minimum advance warning sign spacing (in feet):

SPEED (MPH) *	A	B	C
URBAN (40 MPH OR LOWER)	100	100	100
URBAN (45 MPH OR HIGHER)	350	350	350
RURAL (55 MPH OR LOWER)	500	500	500
RURAL (60 MPH OR HIGHER)	750	750	750
EXPRESSWAY/FREEWAY	1000	1500	2640

* Posted speed prior to work starting

The minimum spacing between signs shall be no less than 100', unless directed by the engineer.

The spacing between any signs may be increased beyond the minimum values in the table above as approved by the engineer in order to maximize visibility.

Taper Formulas:

L = WS for speeds of 45 MPH or more

$L = WS^2/60$ for speeds of 40 MPH or less

Where: L =Minimum length of taper in feet
S =Numericial value of posted speed prior to work starting in MPH
W =Width in offset feet

Shifting taper=1/2 L
Shoulder taper=1/3 L

Buffer Space

SPEED (MPH) *	20	25	30	35	40	45	50	55	60	65	70	75
LENGTH (ft)	115	155	200	250	305	360	425	495	570	645	730	820

* Posted speed prior to work starting

Neither work activity nor storage of equipment, vehicles, or material should occur in the buffer space. When a protection vehicle is placed in advance of the work space, only the space upstream of the vehicle constitutes the buffer space.

If temporary concrete safety barrier system is used to seperate approaching traffic from the work space, the barrier system shall be considered part of the activity area. A full lane width should be available throughout the length of the buffer space. See typical work zone components above.

NO.	DATE	REVISIONS	BY	APP'D
3				
2				
1				

KANSAS DEPARTMENT OF TRANSPORTATION

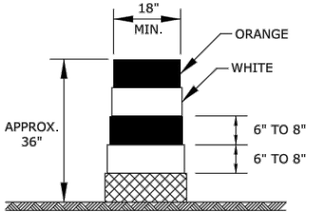
TRAFFIC CONTROL
GENERAL NOTES

TE700

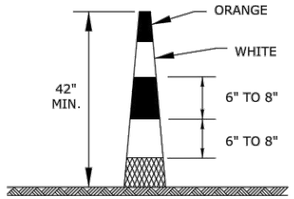
FHWA APPROVAL	06/01/15	APP'D	Kristina Ericksen
DESIGNED B.A.H.	DETAILED R.W.B	QUANTITIES	TRACED
DESIGN CK.	DETAIL CK.	QUAN. CK.	TRACE CK.

Plotted : 01-JUN-2015 13:54
Traffic
Drawn By : mushock
File : te700.dgn

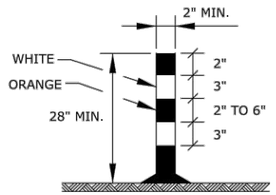
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	138	143
F.A. NO.	TEA-T037(301)			



DRUM

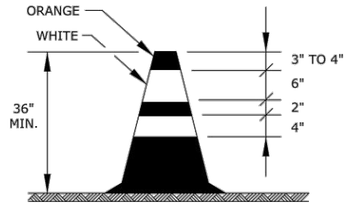


CONICAL DELINEATOR

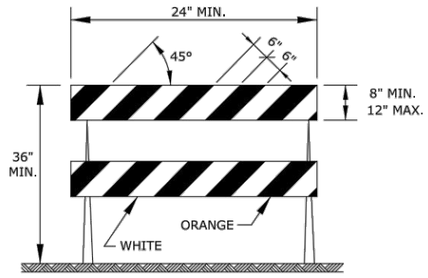


TUBULAR MARKER

Striping as shown for up to 42".

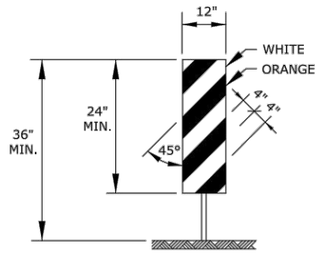


TRAFFIC CONE



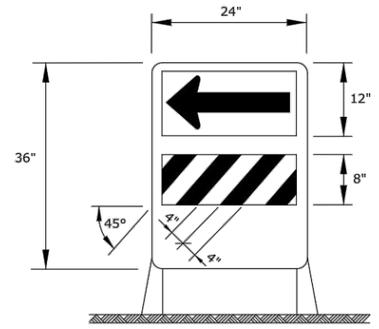
TYPE 2 BARRICADE

For rails less than 36" long, 4" wide stripes may be used. All stripes shall slope downward to the traffic side for channelization.



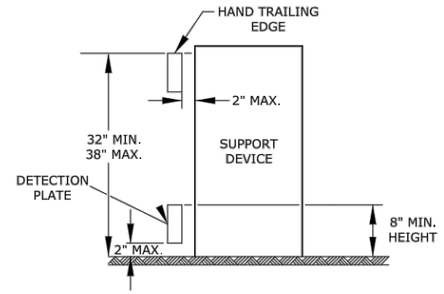
VERTICAL PANEL

The stripes shall slope downward to the traffic side for channelization.



DIRECTION INDICATOR BARRICADE

The stripes shall slope downward in the direction traffic is to pass. The direction indicator barricade shall be used in series to direct the motorist into the intended lane of travel.



PEDESTRIAN CHANNELIZER

1. Support device shall not project beyond the detection plate into the pathway.
2. Hand trailing edges and detection plates are optional for continuous walls.
3. Interconnect pedestrian channelizers to prevent displacement and to provide continuous guidance through or around work.
4. Alternate pathways shall be firm, stable, and slip resistant.
5. Treat height differentials > 1/2" in the surfaces of alternate paths with a firm, stable, and slip resistant temporary ramp having a slope of 12:1 or flatter and having a width equal to the alternate path.
6. Use alternating orange/white on interconnected devices.

ITEM	LOCATION	Cross-overs	Shoofly Diversions	Tangents	Tapers	Ramps	Head to Head	Object Identifier	Lead-in Devices	Gores
PORTABLE										
	Drums	Yes	Yes	Yes	Yes	Yes	(1)	Yes	Yes	Yes
	Conical Delineators	Yes	Yes	Yes	Yes	Yes	(1)	Yes	Yes	Yes
	Vertical Panels	(2)	(2)	(2)	(2)	(2)	(1,2)	YES	(2)	(2)
	Direction Indicator Barricade	NO	NO	NO	Yes	NO	NO	NO	NO	NO
	Type 2 Barricade	(2)	(2)	(2)	(2)	NO	NO	Yes	NO	NO
	Traffic Cones	NO	NO	(4)	(4)	(4)	NO	(4)	(4)	(4)
FIXED										
	Tubular Markers	(3)	(3)	(3)	NO	(3)	Yes	NO	Yes	Yes
	Vertical Panels	(3)	(3)	(3)	(3)	(3)	(3)	Yes	(2,3)	(2)

(1) Not allowed on centerline delineation along freeways or expressways.
(2) The stripes shall slope downward to the traffic side for channelization.
(3) May be used upon the approval of the engineer.
(4) Daytime operations only.

NO.	DATE	REVISIONS	BY	APP'D
3				
2				
1				

KANSAS DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL
CHANNELIZING DEVICES

TE702

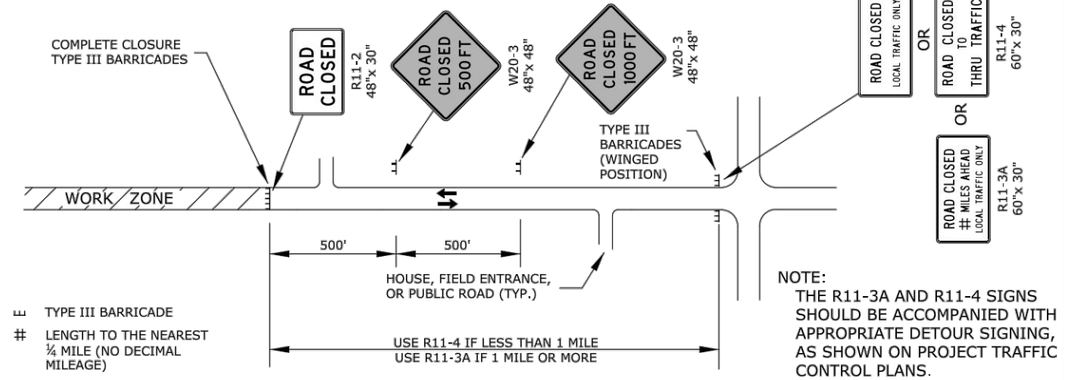
FHWA APPROVAL		06/01/15	APP'D	Kristina Ericksen	
DESIGNED	L.E.R.	DETAILED	R.W.B.	QUANTITIES	TRACED
DESIGN CK.		DETAIL CK.		QUAN. CK.	TRACE CK.

Plotted : 01-JUN-2015 13:54
Traffic

Drawn By : mushock
File te702.dgn

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	139	143
F.A. NO.	TEA-T037(301)			

NOTE: SIGNS SHOWN FOR ONE APPROACH TO WORK ZONE.



NOTE:
THE R11-3A AND R11-4 SIGNS SHOULD BE ACCOMPANIED WITH APPROPRIATE DETOUR SIGNING, AS SHOWN ON PROJECT TRAFFIC CONTROL PLANS.

FIGURE 1: TYPICAL SIGNING FOR ROAD CLOSURE

NOTE: SIGNS SHOWN FOR ONE APPROACH TO INTERSECTION (WORK ZONE).

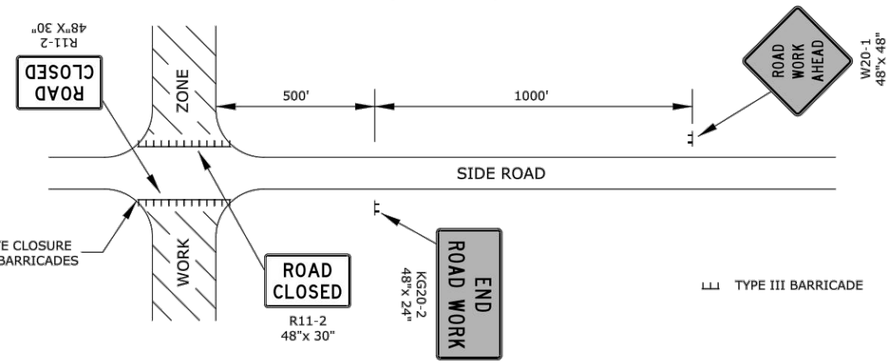


FIGURE 2: TYPICAL SIGNING FOR SIDE ROAD OPEN

NOTE: SIGNS SHOWN FOR ONE APPROACH TO INTERSECTION (WORK ZONE).

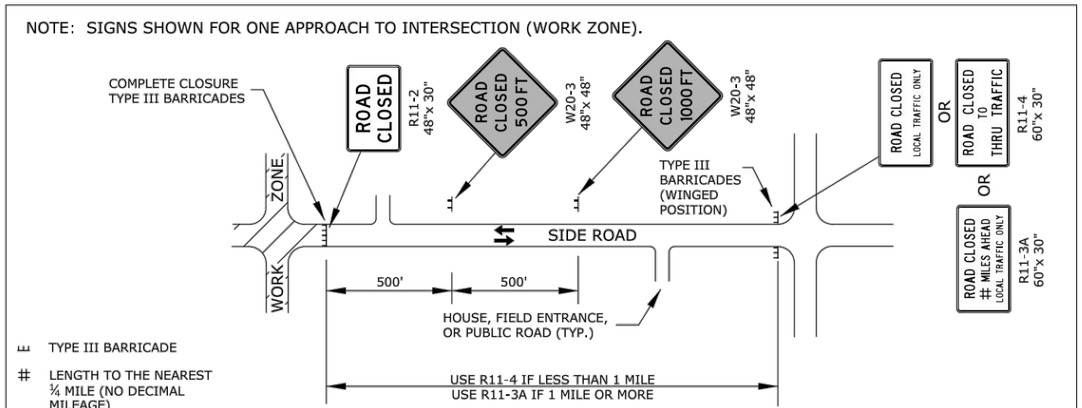


FIGURE 3: TYPICAL SIGNING FOR SIDE ROAD CLOSED

NOTE: SIGNS SHOWN FOR ONE APPROACH TO WORK ZONE.

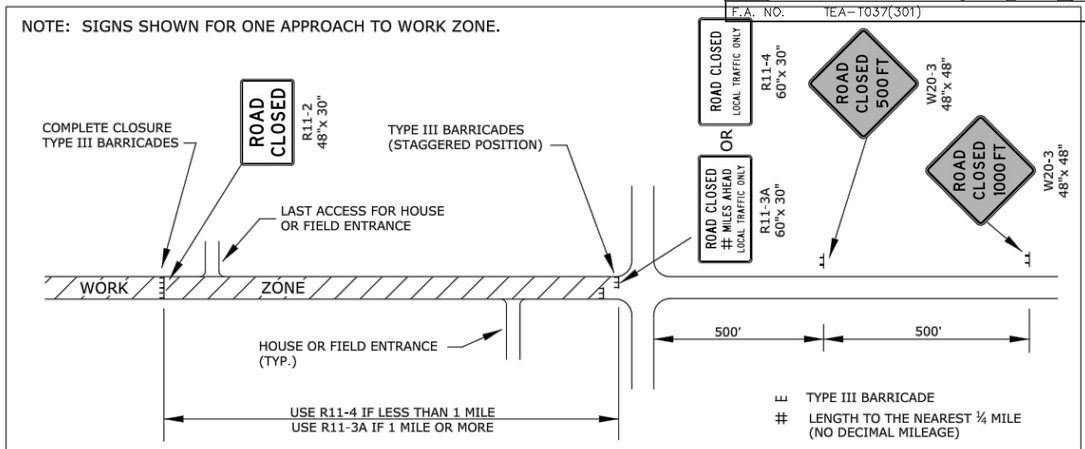


FIGURE 4: TYPICAL SIGNING FOR ROAD CLOSURE - LOCAL TRAFFIC ACCESS

NOTES:

1. SIGNS:

THE R11-4 (ROAD CLOSED TO THRU TRAFFIC OR ROAD CLOSED LOCAL TRAFFIC ONLY) SIGN SHALL BE USED WHEN THE DISTANCE TO THE POINT OF COMPLETE CLOSURE OF THE ROADWAY IS LESS THAN 1 MILE.

THE R11-3A (ROAD CLOSED # MILES AHEAD LOCAL TRAFFIC ONLY) SIGN SHALL BE USED WHEN THE DISTANCE TO THE POINT OF COMPLETE CLOSURE OF THE ROADWAY IS 1 MILE OR GREATER.

THE WORDS "BRIDGE OUT" (OR BRIDGE CLOSED) MAY BE SUBSTITUTED FOR THE WORDS "ROAD CLOSED" ON THE R11-3A OR R11-4 SIGN WHERE APPLICABLE.

2. BARRICADE PLACEMENT:

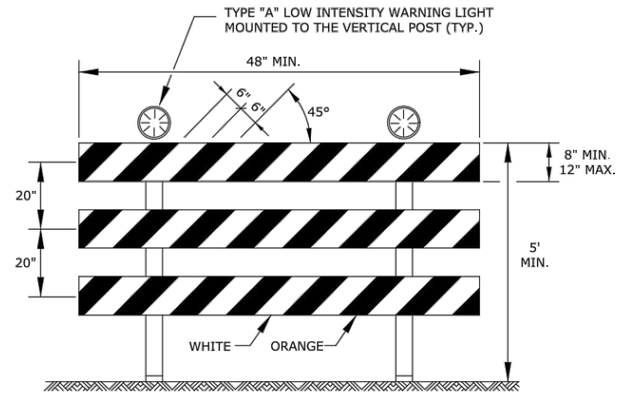
A) COMPLETE ROAD CLOSURE

WHEN A ROADWAY IS CLOSED, TYPE III BARRICADES SHALL BE PLACED END-TO-END TO COMPLETELY COVER THE ROADWAY AND SHOULDERS. WHEN ACCESS MUST BE ALLOWED FOR CONSTRUCTION OR OTHER OFFICIAL/GOVERNMENT VEHICLES, TYPE III BARRICADES SHALL BE LONGITUDINALLY STAGGERED FAR ENOUGH APART FROM ONE ANOTHER TO ALLOW SAFE PASSAGE OF VEHICLES AND MAINTAIN THE APPEARANCE OF A CLOSED ROADWAY. TYPE III BARRICADES SHALL BE REALIGNED AND PLACED END-TO-END TO DENY ANY ACCESS WHEN THE CONSTRUCTION ACTIVITY HAS CEASED FOR THE DAY.

B) ROAD CLOSED - LOCAL TRAFFIC

AS SHOWN IN FIGURE 4, WHEN LOCAL TRAFFIC MUST BE ALLOWED ACCESS INTO THE WORK ZONE, TYPE III BARRICADES SHALL BE LONGITUDINALLY STAGGERED TO MAINTAIN THE APPEARANCE OF A CLOSED ROADWAY. A SECOND LINE OF END-TO-END TYPE III BARRICADES SHALL BE PLACED JUST BEYOND THE LAST ACCESS POINT IN THE WORK ZONE, TO COMPLETELY CLOSE THE ROADWAY AS DESCRIBED IN NOTE 2-A.

AS SHOWN IN FIGURE 1 AND FIGURE 3, AT THE POINT WHERE THRU TRAFFIC MUST DETOUR AND LOCAL TRAFFIC CAN PROCEED TO THE LOCATION WHERE THE ROADWAY IS COMPLETELY CLOSED, THE R11-3A (ROAD CLOSED # MILES AHEAD LOCAL TRAFFIC ONLY) OR R11-4 (ROAD CLOSED LOCAL TRAFFIC ONLY OR ROAD CLOSED TO THRU TRAFFIC) SIGN SHALL BE USED WITH TYPE III BARRICADES (WINGED POSITION), PLACED ON THE SHOULDERS OF ROADWAY.



TYPE III BARRICADE WITH LIGHTS

THE ENTIRE AREA OF BARRICADE RAILS, BOTH FRONT AND BACK, SHALL HAVE ASTM TYPE III SHEETING.

THE STRIPES SHALL SLOPE DOWNWARD TO THE SIDE TRAFFIC IS TO PROCEED OR TOWARD THE CENTER OF THE ROADWAY AT ROAD CLOSURES.

APPROVED SIGNS MOUNTED ON TYPE III BARRICADES SHOULD NOT COVER MORE THAN 50% OF THE TOP TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.

WHEN BARRICADES ARE PLACED END-TO-END OR STAGGERED, A TYPE "A" LOW INTENSITY WARNING LIGHT SHALL BE MOUNTED TO THE VERTICAL POST NEAR EACH OUTSIDE CORNER OF THE END BARRICADES.

NO.	DATE	REVISIONS	BY	APP'D
3	10/16/12	Modified Type III Barricade Note	J.A.M.	K.P.
2	8/8/07	Added Position To Type III Barricade	M.B.	A.A.A.
1	12/29/05	Note #1 Modified	M.B.	A.A.A.

KANSAS DEPARTMENT OF TRANSPORTATION

TYPICAL TRAFFIC CONTROL ROAD CLOSURES

TE704

FHWA APPROVAL		10/16/12	APP'D	Kristina Pyle	
DESIGNED	B.A.H.	DETAILED	B.A.H.	QUANTITIES	TRACED
DESIGN CK.		DETAIL CK.		QUAN. CK.	TRACE CK.

Plotted : 24-OCT-2012 07:53
Traffic
Drawn By : jmadrid
File : te704.dgn

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	140	143
F.A. NO.	TEA-T037(301)			

SIGN LAYOUT INFORMATION

END ROAD WORK
KG20-2
STD. SIZE EXPWY/FREEWAY
6" C
48"x 24"

WAIT FOR PILOT CAR
KG20-5
STD. SIZE EXPWY/FREEWAY
6" C
48"x 24"

WORK ZONE
KM4-2O
STD. SIZE 3" C 24"x 6"
EXPWY/FREEWAY 6" C 48"x 12"

NEXT X MILES
W7-3a
Mileage to be determined by the engineer.


W8-17
STD. SIZE EXPWY/FREEWAY
48"x 48"

SHOULDER DROP-OFF
W8-17P (OPTIONAL)
STD. SIZE EXPWY/FREEWAY
30"x 24"

GROOVED PAVEMENT
W8-15
STD. SIZE EXPWY/FREEWAY
8" D
48"x 48"

LOOSE GRAVEL
W8-7
STD. SIZE EXPWY/FREEWAY
8" D
48"x 48"

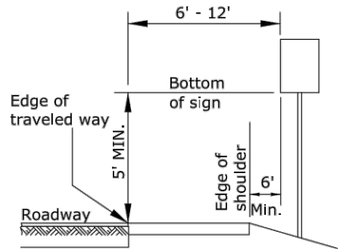

W8-15p
STD. SIZE EXPWY/FREEWAY
30"x 24"

UNEVEN LANES
W8-11
STD. SIZE EXPWY/FREEWAY
8" D
48"x 48"

NB US-75 CLOSED FOLLOW DETOUR
SP-01
(SPECIAL SIGN)
STD. SIZE 6" C
EXPWY/FREEWAY 10" D

US-75 CLOSED NORTH OF Topeka FOLLOW DETOUR
SP-02
(SPECIAL SIGN)
STD. SIZE
UPPERCASE: 6" C
LOWERCASE: 4.5" C
EXPWY/FREEWAY
UPPERCASE: 10" D
LOWERCASE: 8" D

ALL CITY NAMES AND STREET NAMES ON SPECIAL SIGNS AND DESTINATION SIGNS MUST HAVE UPPER AND LOWER CASE LETTERS.

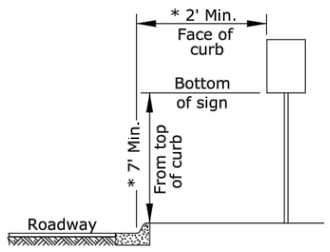


Rural

1) Ground-mounted signs shall be mounted at a minimum height of 5' measured from the bottom of sign to the near edge of the pavement.

2) Large signs having an area exceeding 50 square feet installed on multiple breakaway posts shall be mounted a minimum of 7' above the ground.

3) The height of the secondary sign mounted below another sign may be 4' measured from the bottom of the sign to the near edge of the pavement. Signs shall not overlap each other.



Urban

1) Signs shall be mounted at a minimum height of 7' measured from the bottom of sign to the near edge of the pavement.

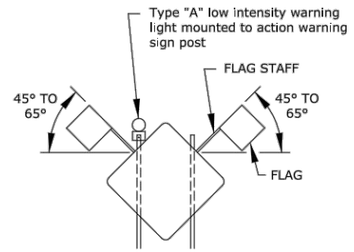
2) Neither portable nor permanent sign supports should be located on sidewalks or areas designated for pedestrian or bicycle traffic.

3) Signs mounted lower than 7' should not project more than 4" into pedestrian facilities.

4) The height from of the secondary sign mounted below another sign may be 6' measured from the bottom of sign to the near edge of the pavement. Signs shall not overlap each other.

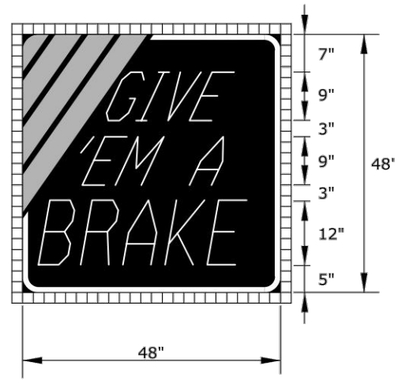
5) Large signs having an area exceeding 50 square feet installed on multiple breakaway posts shall be mounted a minimum of 7' above the ground.

*6) Pedestrian detour signing shall be a minimum of 2' measured from the top of the pedestrian pathway to the bottom of the sign and shall not protrude into the walkway nor shall it project beyond the back of curb.



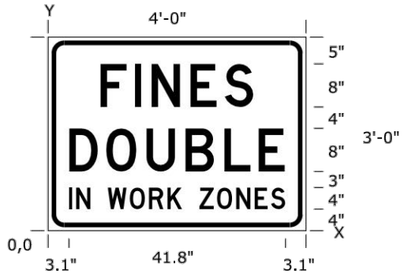
When the sign width is equal to or greater than 9', three or more wood posts may be used with a minimum of 4' between the centerline of each post. All signs less than 9' in width shall use a maximum of two wood posts.

In the case of hitting rock when driving posts
1. Shift the sign location. Do not violate minimum sign spacing.
2. With the engineer's approval, use acceptable alternative sign stands.



KI-104a

SIGN NUMBER	GIVE EM A BRAKE
WIDTH x HEIGHT	4'-0" x 4'-0"
BORDER WIDTH	1.0"
CORNER RADIUS	4.0"
STRIPE WIDTH	3.0"
MOUNTING	GROUND
BACKGROUND	TYPE: NON-REFLECTIVE
	COLOR: BLACK
LEGEND/BORDER	TYPE: REFLECTIVE
	COLOR: WHITE
LEGEND FONT	DUTCH 801 ROMAN SWC 25 DEGREE SLANT
STRIPES	TYPE: REFLECTIVE
	COLOR: ORANGE



KI-105a

SIGN NUMBER	FINES DOUBLE
WIDTH x HEIGHT	4'-0" x 3'-0"
BORDER WIDTH	0.9"
CORNER RADIUS	3.0"
MOUNTING	GROUND
BACKGROUND	TYPE: REFLECTIVE
	COLOR: WHITE
LEGEND/BORDER	TYPE: NON-REFLECTIVE
	COLOR: BLACK

DIMENSIONS IN INCHES — SPACINGS ARE TO START OF NEXT LETTER

Y FONT	LETTER SPACINGS															HT LEN
23.0 D	X	F	I	N	E	S	X									8.0
	9.7	6.4	3.2	7.3	6.4	5.4	9.7									28.6
11.0 D	X	D	O	U	B	L	E	X								8.0
	3.9	6.9	7.5	7.3	7.3	6.4	4.9	3.9								40.3
4.0 D	X	I	N	X	W	O	R	K	X	Z	O	N	E	S	X	4.0
	3.1	1.6	2.7	3.2	4.3	3.8	3.6	2.8	3.2	3.4	3.8	3.6	3.2	2.7	3.1	41.8

Notes:

Typically, there are two sets of informational signs installed per project: one for each direction of traffic.

Install signs a minimum of 500' in advance of the road work ahead sign. The engineer may designate a more appropriate location if conditions dictate.

The informational signs are not to interfere with the traffic control signs for the project.

NO.	DATE	REVISIONS	BY	APP'D
3				
2				
1				

KANSAS DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SIGN INFORMATION

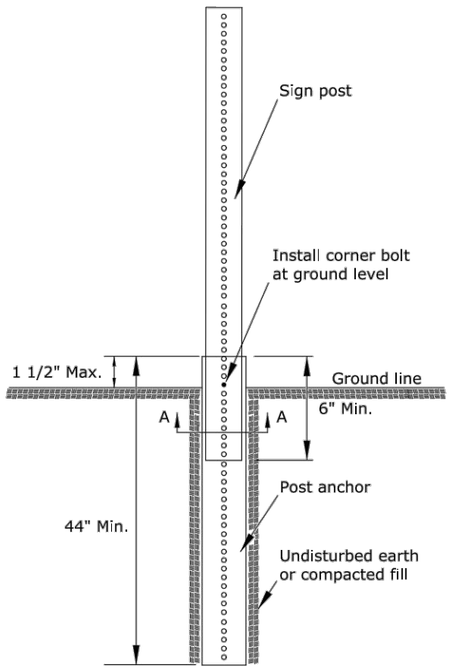
TE710

FHWA APPROVAL		06/01/15	APP'D	Kristina Pyle	
DESIGNED	R.W.B.	DETAILED	R.W.B.	QUANTITIES	TRACED
DESIGN CK.		DETAIL CK.		QUAN. CK.	TRACE CK.

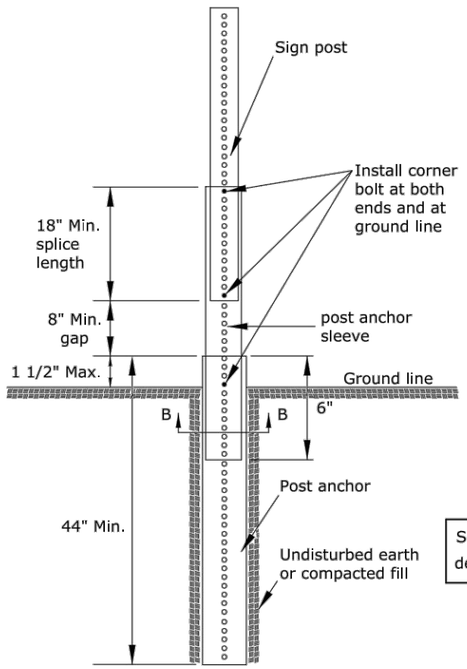
Plotted : 01-JUN-2015 13:54
Traffic
Drawn By : mushock
File : te710.dgn

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	141	143
F.A. NO.	TEA-T037(301)			

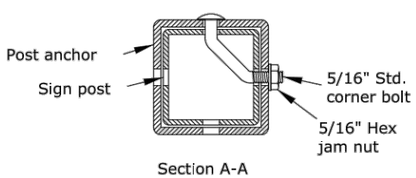
Perforated square steel tube (P.S.S.T.) post setup



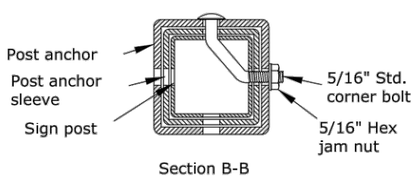
P.S.S.T. detail



Telescoping P.S.S.T. detail



Section A-A

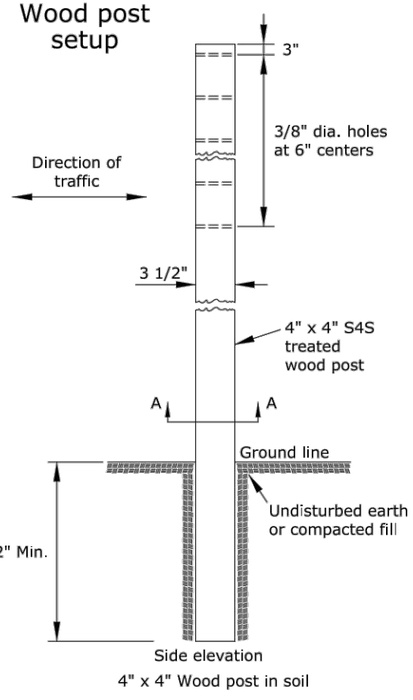


Section B-B

Details for 2", 2 1/4", or 2 1/2" sign posts

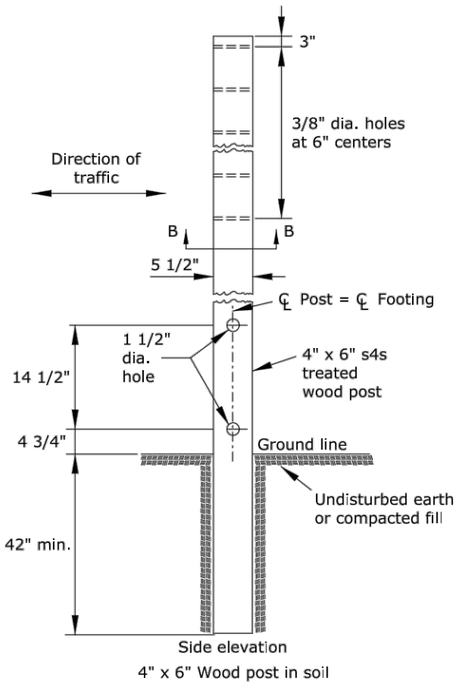
Place bolts in the same corner along each sign post.

Wood post setup



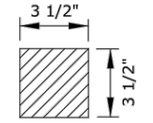
Side elevation

4" x 4" Wood post in soil

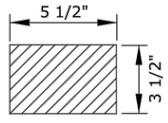


Side elevation

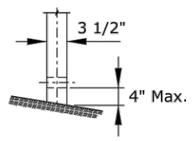
4" x 6" Wood post in soil



Section A-A



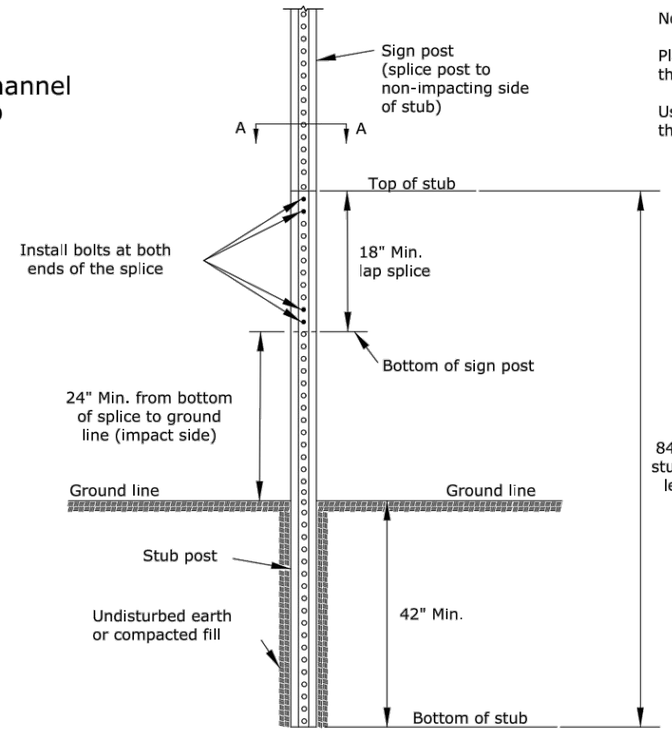
Section B-B



Front elevation

See TE710 for additional details and requirements

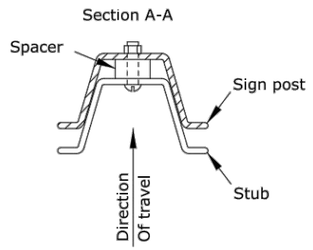
3 lb/f U-Channel setup



Notes:

Place two bolts at both ends of the splice through the holes nearest the ends of the splice.

Use manufacturer recommended spacers over the bolts between the spliced pieces of U-Channel.



NO.	DATE	REVISIONS	BY	APP'D
3				
2				
1				

KANSAS DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SIGN POSTS

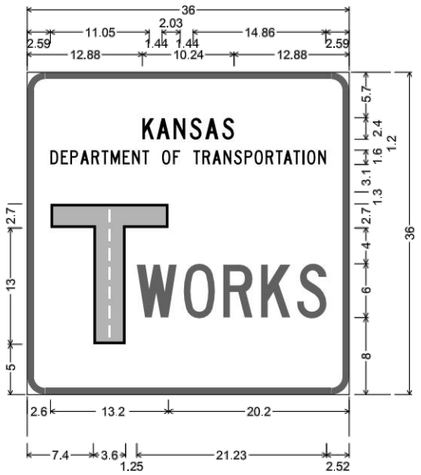
TE712

FHWA APPROVAL		06/01/15	APP'D	Kristina Pyle	
DESIGNED	B.A.H.	DETAILED	R.W.B.	QUANTITIES	TRACED
DESIGN CK.		DETAIL CK.		QUAN. CK.	TRACE CK.

Plotted : 01-JUN-2015 13:54
Traffic

Drawn By : mushock
File : te712.dgn

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	142	143
F.A. NO.	TEA-T037(301)			



TWORKS SIGN 8
2.00" RADIUS, 0.75" BORDER, BLUE ON WHITE;
[KANSAS] BLACK C;
[DEPARTMENT OF TRANSPORTATION] BLACK C 90% SPACING;
[T] ORANGE; 0.3" BLACK BORDER
LANE LINES: .3"X1.4" WHITE; 0.75" SPACING FROM BOTTOM
[WORKS] C 75% SPACING;
TABLE OF DISTANCES BETWEEN LETTER AND OBJECT LEFTS.

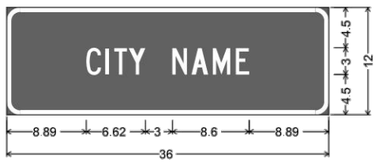
12.88	K 1.58	A 1.91	N 1.82	S 1.71	A 1.91	S 1.31	12.88

2.59	D 1.18	E 1.04	P 1.12	A 1.24	R 1.12	T 1.05	M 1.34	E 1.04	N 1.12	T 2.24	O 1.23	F 2.24

T 1.04	R 1.12	A 1.24	N 1.18	S 1.18	P 1.11	O 1.23	R 1.12	T 0.88	A 1.08	T 1.05	I 0.53	O 1.22	N 0.88	2.59

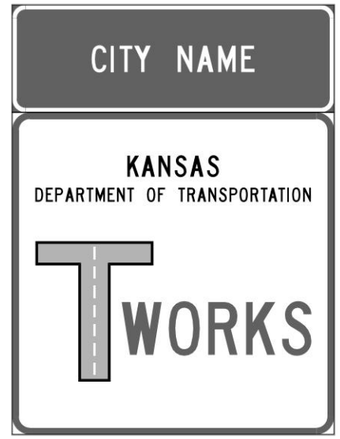
2.6	T 13.2	20.2

12.25	W 5.26	O 4.42	R 4.22	K 4.05	S 3.28	2.52	



TWORKS SIGN 7
1.50" RADIUS, 0.50" BORDER, WHITE ON BLUE;
[CITY NAME] C;
TABLE OF DISTANCES BETWEEN LETTER AND OBJECT LEFTS.

8.89	C 2.14	I 0.93	T 1.67	Y 4.88	N 2.14	A 2.39	M 2.57	E 1.50	8.89



TYPICAL SIGN ASSEMBLY

GENERAL NOTES

THE "TWORKS" SIGN BLANK MATERIAL SHALL BE ALUMINUM, WOOD, OR FIBERGLASS REINFORCED PLASTIC.

THE "TWORKS" SIGN FACES SHALL BE COVERED WITH TYPE IV HIGH INTENSITY RETROREFLECTIVE SHEETING.

THE "TWORKS" SIGNS SHOULD BE MOUNTED ON APPROVED POSTS, AS SHOWN ON TE712 WITHOUT THE USE OF BRACING, GUY WIRES, OR TIE-DOWNS. THE "TWORKS" SIGNS MAY ALSO BE MOUNTED ON SKIDS. THE MOUNTING HEIGHTS AND LATERAL OFFSETS ARE TO BE SHOWN ON TE714.

THE "TWORKS" SIGNS SHOULD BE INSTALLED IN ADVANCE OF THE FIRST TRAFFIC CONTROL SIGN A DISTANCE OF 500' FOR A TWO-WAY ROADWAY IN A RURAL LOCATION AND 100' TO 350' IN AN URBAN AREA DEPENDING UPON THE SPEED. THE FIRST TRAFFIC CONTROL SIGN IS EITHER THE "ROAD WORK AHEAD" OR THE "GIVE 'EM A BRAKE" SIGN. THE ENGINEER MAY DESIGNATE A MORE APPROPRIATE LOCATION IF CONDITIONS DICTATE.

THE "TWORKS" SIGNS SHALL NOT INTERFERE WITH THE TRAFFIC CONTROL SIGNS FOR THE PROJECT OR WITH ANY OTHER REGULATORY, WARNING, OR GUIDE SIGN THAT IS TO REMAIN IN PLACE DURING CONSTRUCTION.

THE TWORKS SIGN ASSEMBLY CONSISTS OF A TWORKS SIGN 7 AND AND TWORKS SIGN 8. THE BID ITEM FOR THIS ASSEMBLY IS "TWORKS SIGN ASSEMBLY" WITH A BID UNIT OF "EACH".

THE TWORKS SIGN ASSEMBLY SHOULD REMAIN IN PLACE FOR SIX (6) MONTHS FOLLOWING THE COMPLETION OF THE PROJECT AND BECOME THE PROPERTY OF KDOT OR THE LOCAL JURISDICTION.

NO.	DATE	REVISIONS	BY	APP'D
3	10/16/12	Modified General Note	J.A.M.	K.P.
2	10/4/11	Removed Swoosh From TWork Sign	J.A.M.	K.P.
1	9/1/10	Modified Bid Item	J.A.M.	K.P.

KANSAS DEPARTMENT OF TRANSPORTATION

DETAILS FOR THE TRANSPORTATION WORKS FOR THE KANSAS (TWORKS) SIGNS LOCAL PROJECTS

TE715C

FHWA APPROVAL		10/16/12	APP'D	Kristina Pyle	
DESIGNED	D.G.	DETAILED	D.G.	QUANTITIES	TRACED
DESIGN CK.	J.A.M.	DETAIL CK.	J.A.M.	QUAN. CK.	TRACE CK.

Plotted : 24-OCT-2012 07:54
Traffic

Drawn By : jmadrid
File te715c.dgn

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	23 TE-0373-01	2014	143	143
F.A. NO.	TEA-T037(301)			

Summary Of Traffic Control Devices (Each)

Work Zone Sign (Special)		
Sign No.	16.25 Sq.Ft. & Less	16.26 Sq.Ft. & Over

Summary Of Traffic Control Devices (Each Per Day)

* Quantity Most Used On The Project At Any One Time

Work Zone Signs *			
Sign No.	Size - Sq.Ft.		
	0-9.25	9.26-16.25	16.26 & Over
~~W20-7~~		~~2~~	
W20-1	3		
W20-4	2		
W20-5	2		
R3-5R	2		
R3-5L	1		
R5-1	1		
D-3	1		
KG20-2	2		
M4-5A RT	1		
M4-5A LT	1		
M4-9 ST	1		

Barricades *		Channelizing Devices *		
Type 3 (4' To 12')	Pedestrian	Fixed	Portable	Pedestrian
1			31	

Lighted Devices *	
Work Zone Warning Light (Type "A" Low Intensity)	2
Work Zone Warning Light (Red Type "B" High Intensity)	
Arrow Display	
Portable Changeable Message Sign	

Recapitulation Of Quantities		
Item	Quantity	Unit
Work Zone Signs (O To 9.25 Sq.Ft.)	15	Each Per Day
Work Zone Signs (9.26 To 16.25 Sq.Ft.)		Each Per Day
Work Zone Signs (16.26 Sq.Ft. & Over)		Each Per Day
Work Zone Barricades (Type 3 - 4' To 12')	1	Each Per Day
Work Zone Barricades (Pedestrian)		Each Per Day
Channelizer (Fixed)		Each Per Day
Channelizer (Portable)	31	Each Per Day
Channelizer (Pedestrian)		Each Per Day
Work Zone Warning Light (Type "A" Low Intensity)	2	Each Per Day
Work Zone Warning Light (Red Type "B" High Intensity)		Each Per Day
Arrow Display		Each Per Day
Portable Changeable Message Sign		Each Per Day
Pavement Marking (Temporary)		
4" Solid (Type I)		Sta./Line
4" Solid (Type II)		Sta./Line
4" Broken (8.0') (Type I)		Sta./Line
4" Broken (8.0') (Type II)		Sta./Line
4" Broken (3.0') (Type I)		Sta./Line
4" Broken (3.0') (Type II)		Sta./Line
4" Dotted Extension (Type I)		Sta./Line
4" Dotted Extension (Type II)		Sta./Line
Solid (Line Masking Tape)		Sta./Line
Broken (Line Masking Tape)		Sta./Line
Symbol (Type I)		Each
Symbol (Type II)		Each
Flexible Raised Pavement Marker (4" Broken (8.0'))		Sta./Line
Flexible Raised Pavement Marker (4" Broken (3.0'))		Sta./Line
Pavement Marking Removal		Lin. Ft.
Work Zone Sign (Special) (16.25 Sq. Ft. & Less)		Each
Work Zone Sign (Special) (16.26 Sq. Ft. & More)		Each
Temporary Raised Pavement Marker (Type I)		Each
Temporary Raised Pavement Marker (Type I)		Each
Traffic Signal Installation (Temporary)		Lump Sum
Traffic Control (Initial Set Up)	Lump Sum	Lump Sum
Traffic Control		Lump Sum
Flagger (Set Price)	~~1~~	Hour
TWORKS Sign Assembly	1	Each

NO.	DATE	REVISIONS	BY	APP'D
3				
2				
1				

KANSAS DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL
SUMMARY OF DEVICES
RECAPITULATION OF QUANTITIES

TE795

FHWA APPROVAL		06/01/15	APP'D	Kristina Ericksen	
DESIGNED	B.A.H.	DETAILED	R.W.B.	QUANTITIES	TRACED
DESIGN CK.		DETAIL CK.		QUAN. CK.	TRACE CK.

Plotted : 01-JUN-2015 13:54
Traffic

Drawn By : mushock
File te795.dgn