

WEST MAIN STREET REVITALIZATION

FROM WEST COWLITZ WAY TO 3RD AVENUE

CITY PROJECT #581405

PLANS FOR THE CONSTRUCTION OF ROADWAY IMPROVEMENTS AND STORM DRAINAGE

CIVIL ENGINEER/SURVEYOR

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 ENGINEER: TIM KRAFT, PE
 EMAIL: tim.kraft@otak.com
 SURVEYOR: JON YAMASHITA
 ADDRESS: 700 WASHINGTON ST., STE 401
 VANCOUVER, WA 98660

LIGHTING, SIGNALS AND ILLUMINATION

NAME: DKS ASSOCIATES
 ENGINEER: PETER COFFEY
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 PORTLAND, OR 97205

BENCH MARK (B.M.)

COORDINATES NAD83 (CORS96) 2002.0 WASHINGTON STATE PLANE - SOUTH ZONE, US SURVEY FEET. VERTICAL DATUM IS NAVD88 BASED ON WSDOT BENCH MARK #A 202 RESET (NGS #4631), AN NGS BRASS DISK SET IN CONCRETE SIDEWALK LOCATED 4.9 FEET EAST OF THE SOUTHWESTERLY CORNER OF THE COWLITZ RIVER BRIDGE ON SR004 (MAIN ST), HAVING AN ELEVATION OF 37.096 FEET.

TEMPORARY BENCH MARK (T.B.M.)

CONTROL POINT #43, BRASS CAP STAMPED "OTAK CONTROL" SET IN THE BACK OF SIDEWALK AT THE SE CORNER OF W MAIN ST AND W COWLITZ WAY, HAVING AN ELEVATION OF 22.57 FEET. N:305982.931, E:1026726.726

CONTROL POINT #40, BRASS CAP STAMPED "OTAK CONTROL" SET IN THE BACK OF SIDEWALK AT THE SW CORNER OF W MAIN ST AND SW 4TH AVE, HAVING AN ELEVATION OF 25.63 FEET. N:305781.897, E:1027371.386

CONTROL POINT #44, PK NAIL W/ 1/4" BRASS WASHER STAMPED "OTAK CONTROL" SET IN THE SIDEWALK AT THE SW CORNER OF W COWLITZ WAY AND NW 6TH AVE, HAVING AN ELEVATION OF 22.85 FEET. N:306119.006, E:1026990.677

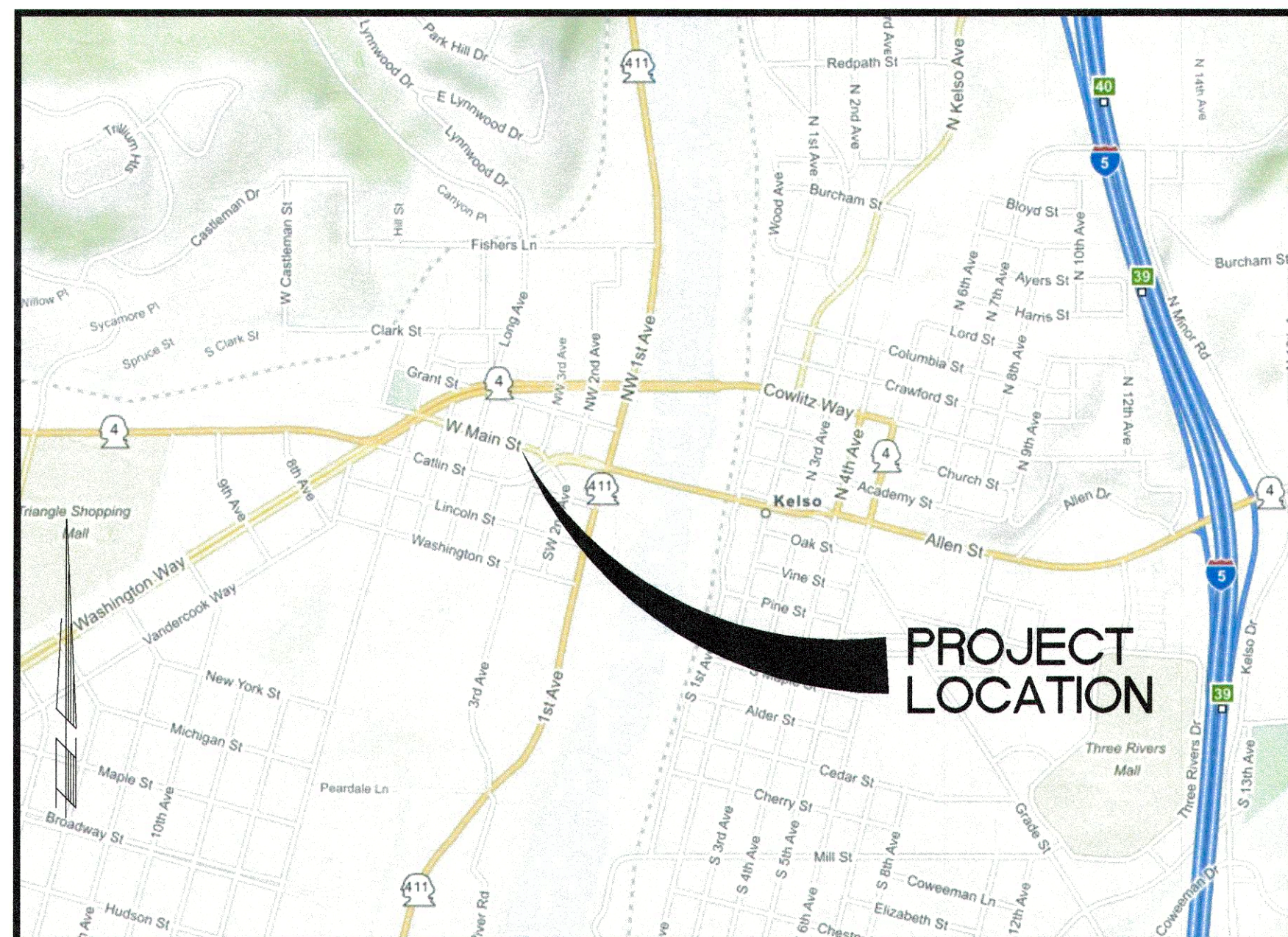
CENTERLINE BASIS OF BEARING

THE CENTERLINE SHOWN IN THESE DOCUMENTS FOR STREETS W COWLITZ WAY, W 4TH AVE, W 5TH AVE AND W 6TH AVE ARE BASED ON THE LEGAL CENTERLINE DESCRIPTION. THE CENTERLINE FOR WEST MAIN STREET IS A CONSTRUCTION CENTERLINE STRICTLY FOR THE PURPOSE OF THESE DOCUMENTS AND IN NO WAY REPRESENTS THE LEGAL CENTERLINE FOR THE ROAD OR THE BASIS FOR ANY RIGHT-OF-WAY, EASEMENTS OR SETBACKS. THE FOLLOWING CONTROL SHALL BE USED TO ESTABLISH THE BEARING FOR THE CONSTRUCTION CENTERLINE ON WEST MAIN STREET:

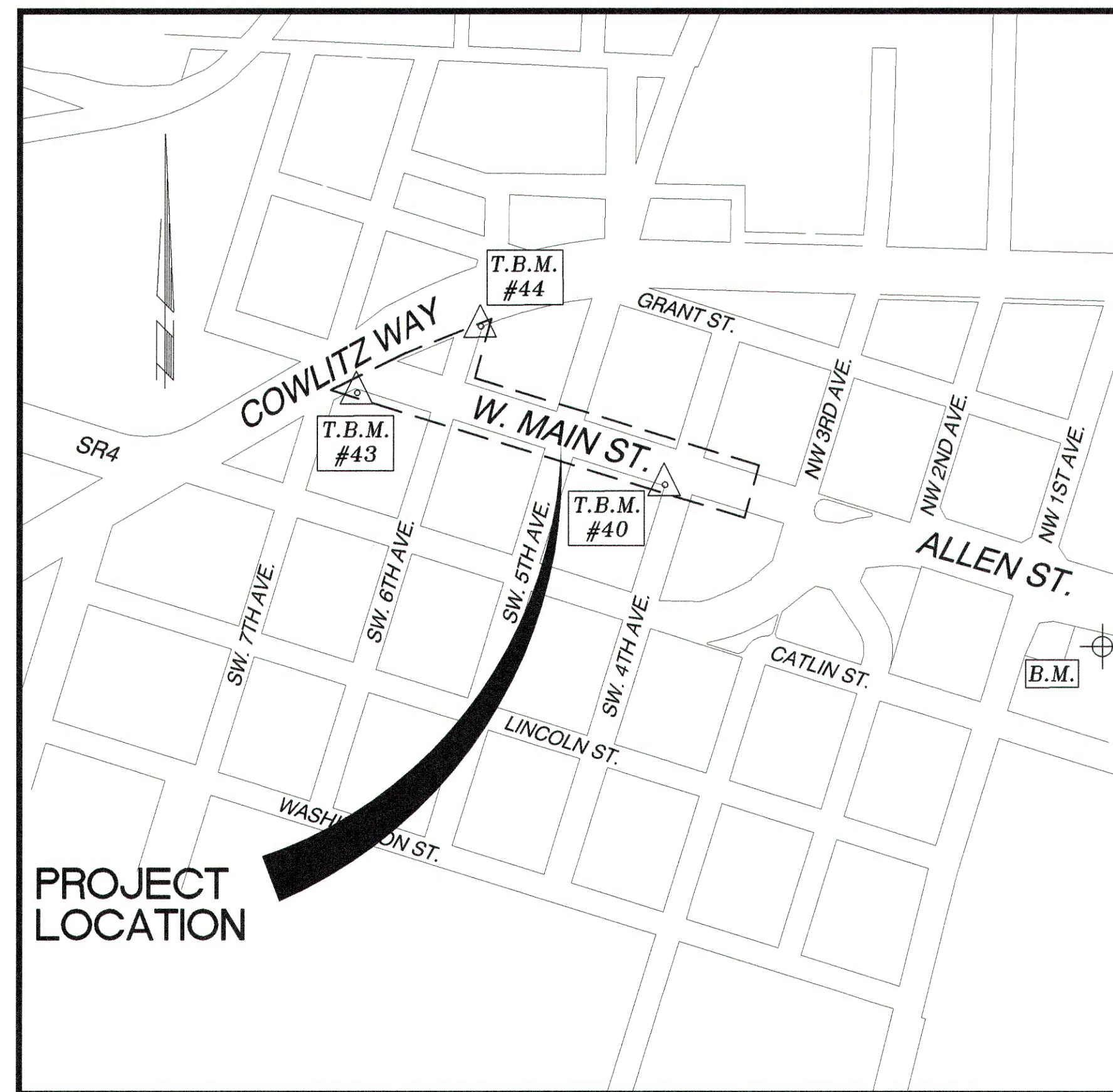
STA 0+00.000; INTERSECTION OF W MAIN ST AND W COWLITZ WAY CENTERLINE
 N:306028.836, E:1026711.614
 STA 2+18.168; INTERSECTION OF W MAIN ST AND W 6TH AVE CENTERLINE
 N:305963.964, E:1026919.914
 STA 4+74.094; INTERSECTION OF W MAIN ST AND W 5TH AVE CENTERLINE
 N:305887.863, E:1027164.264
 STA 7+33.638; INTERSECTION OF W MAIN ST AND W 4TH AVE CENTERLINE
 N:305810.687, E:1027412.068
 STA 9+00.000; END OF PROJECT
 N:305761.219, E:1027570.905

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OVERVIEW MAP
N.T.S.



VICINITY MAP
N.T.S.



CITY OF KELSO
 PUBLIC WORKS DEPARTMENT
 203 S. PACIFIC AVE. SUITE 205
 KELSO, WA 98626

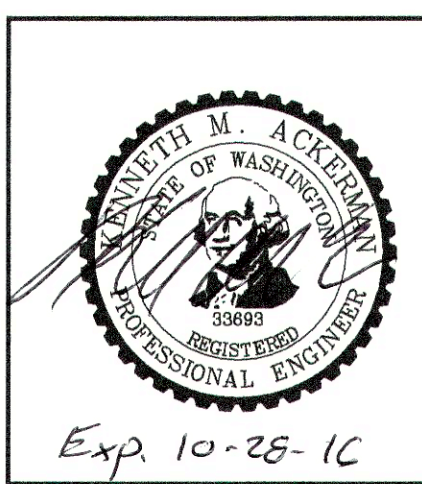
CITY OF KELSO
 APPROVED FOR CONSTRUCTION

 CITY ENGINEER
 DATE: 4.7.16

FEDERAL AID #TA5921



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GENERAL NOTES

- HORIZONTAL DATUM IS NAD83(91) WASHINGTON STATE PLANE COORDINATE SYSTEM, SOUTH ZONE. VERTICAL DATUM IS NAVD 88.
- EXISTING UTILITIES SHOWN ON THE PLANS ARE PER SURFACE LOCATIONS, RECORD DRAWINGS, AND LIMITED POTHOLE DATA. THE CONTRACTOR SHALL POTHOLE AND VERIFY LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
- CONSTRUCTION SURVEY SHALL BE PROVIDED BY THE CONTRACTOR. THE CONTRACTOR WILL BE RESPONSIBLE FOR REPLACING NEEDED SURVEY STAKES DESTROYED THROUGH NORMAL OPERATIONS, NEGLIGENCE, OR INATTENTION.
- AT THE END OF EACH WORK DAY THE CONTRACTOR SHALL CLEAN UP THE PROJECT AREA AND LEAVE IT IN A NEAT AND SECURED MANNER. UPON COMPLETION, THE CONTRACTOR SHALL LEAVE THE PROJECT AREA FREE OF DEBRIS AND UNUSED MATERIAL.
- ALL ROADWAY STATIONS ARE BASED UPON THE CONSTRUCTION CENTERLINE.
- IF EXISTING CONCRETE CURBS AND SIDEWALKS DESIGNATED TO REMAIN ARE DAMAGED THEY WILL BE REMOVED AND REPLACED TO ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR TO COORDINATE UTILITY RELOCATIONS WITH COWLITZ PUD FOR POWER, CENTURYLINK FOR TELEPHONE, CASCADE NATURAL FOR GAS, COMCAST FOR CABLE TV, THE CITY OF KELSO FOR SANITARY AND STORM SEWER AND WATER.
- CONTRACTOR SHALL PROTECT EXISTING WATER SERVICE LINES. ALL DISTURBED WATER SERVICE LINES SHALL BE REPAIRED AS DIRECTED. ALL ADJUSTED METERS WILL BE RESET IN ACCORDANCE WITH CITY OF KELSO STANDARDS AND SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF EXISTING WATER SERVICE LINES DESTROYED THROUGH NEGLIGENCE AND/OR INATTENTION.
- THE CONTRACTOR SHALL MAKE WRITTEN NOTICE TO THE AFFECTED BUSINESSES AND RESIDENCES A MINIMUM OF THREE (3) DAYS PRIOR TO ANY LANE CLOSURE. THE CONTRACTOR SHALL COORDINATE ACCESS FOR INGRESS/EGRESS WITH THE PROPERTY OWNER AND BUSINESSES. THE CONTRACTOR SHALL SUBMIT A DRAFT NOTIFICATION LETTER TO THE ENGINEER FOR APPROVAL FIVE (5) DAYS PRIOR TO DELIVERING THE NOTICE.
- ALL SPECIFICATIONS ARE WSDOT STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION 2016 EDITION.

LINE LEGEND

	PROPOSED STORM LINE
	PROPOSED SAWCUT LINE
	EXISTING PROPERTY LINE
	EXISTING RIGHT OF WAY
	EXISTING EASEMENT
	EXISTING EDGE OF GRAVEL
	EXISTING EDGE OF PAVEMENT
	EXISTING CURB LINE
	EXISTING CENTER LINE
	EXISTING CHAINLINK FENCE
	EXISTING WATER LINE
	EXISTING UNDERGROUND ELECTRIC
	EXISTING SANITARY SEWER LINE
	EXISTING STORM DRAIN PIPE
	EXISTING OVERHEAD POWERLINE
	EXISTING GAS LINE
	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	EROSION CONTROL FENCE
	HIGH VISIBILITY FENCE

SYMBOLS LEGEND

	FIRE HYDRANT		EXISTING CATCH BASIN (CB)
	GEOTECH BORING		EXISTING SIGN
	ROAD CORING		EXISTING J BOX
	WATER VALVE		EXISTING TELEPHONE MANHOLE
	SANITARY SEWER MANHOLE (MH)		EXISTING YARD LIGHT
	EXISTING MONUMENT		EXISTING LIGHT POLE
	EXISTING TRANSFORMER		EXISTING MAIL BOX
	EXISTING ELEC TOWER		EXISTING TELEPHONE JUNCTION BOX
	EXISTING FIRE HYDRANT		EXISTING SPRINKLER HEAD
	EXISTING CLEAN OUT		SET CONTROL POINT
	EXISTING GAS VALVE		COUNTY BENCH MARK
	EXISTING GAS MARKER		PROPOSED CATCH BASIN (CB)
	EXISTING WATER METER		PROPOSED COBRA HEAD LUMINAIRE
	EXISTING VALVE		PROPOSED PENDANT LUMINAIRE
	EXISTING SIGNAL POLE		
	EXISTING UTILITY POLE		
	EXISTING GUY ANCHOR		
	EXISTING TELEPHONE VAULT		
	EXISTING CABLE TV BOX		
	EXISTING GAS LOCATOR PIPE		
	EXISTING COMBINATION CURB INLET (CCI)		
	EXISTING AREA DRAIN		
	EXISTING STORM MH OR DRYWELL		
	EXISTING SANITARY SEWER MH		

PATTERN LEGEND

	FULL DEPTH CEMENT CONCRETE REPLACEMENT
	RAISED INTERSECTION
	FULL DEPTH HMA PAVEMENT
	HMA PAVEMENT TRANSITION
	HMA PAVEMENT REPAIR (FOR DRIVEWAYS)

NOTE SYMBOLS

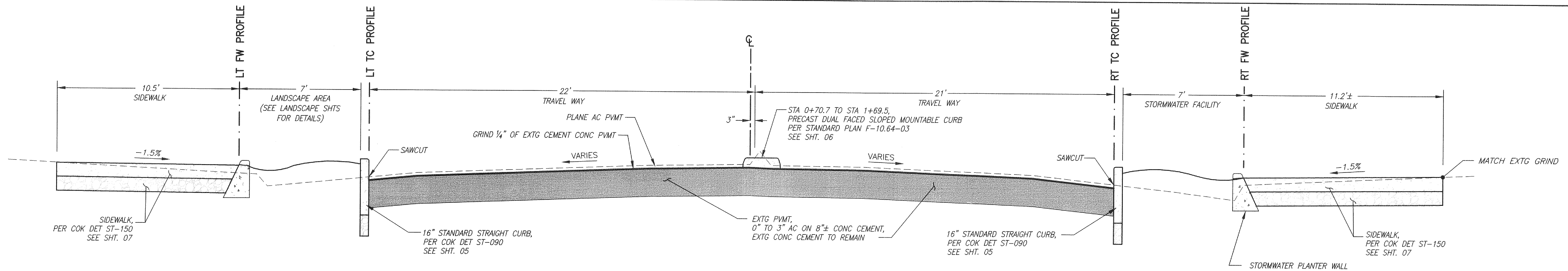
	PROPOSED STORM DRAIN STRUCTURE NOTE
	CURB RETURN NUMBER
	ROAD CENTERLINE CURVE DATA
	CONSTRUCTION NOTE

Mar 17, 2016 - 1:42pm
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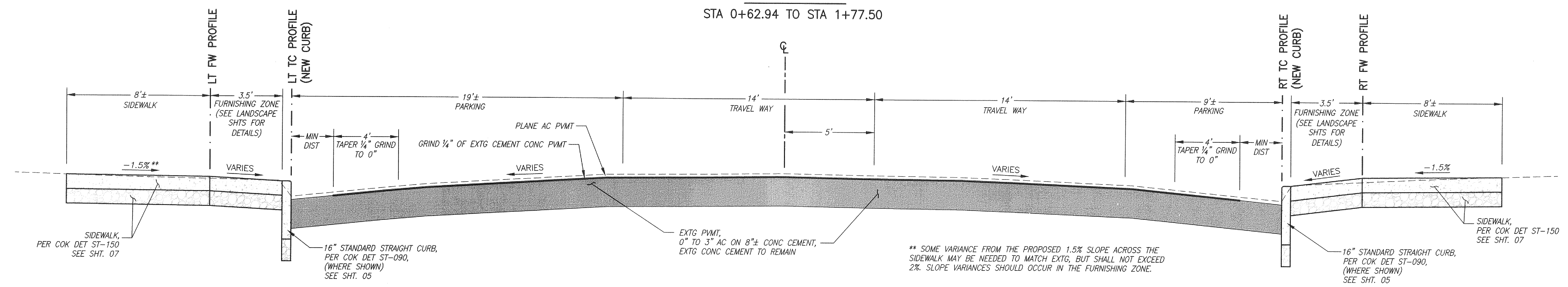
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REVISION	DATE	DESCRIPTION	BY
JOB No.	13564E	WEST MAIN STREET REVITALIZATION PROJECT LEGENDS AND GENERAL NOTES	
Designed By:	MAK		
Drawn By:	NAR		
Checked By:	KMA		
DATE:	10/30/2015	CITY OF KELSO PUBLIC WORKS DEPARTMENT 203 S. PACIFIC AVE. SUITE 205 KELSO, WA 98626	SHEET NUMBER
SCALE:	AS SHOWN		02 of 57
DWG NO.:	G02		

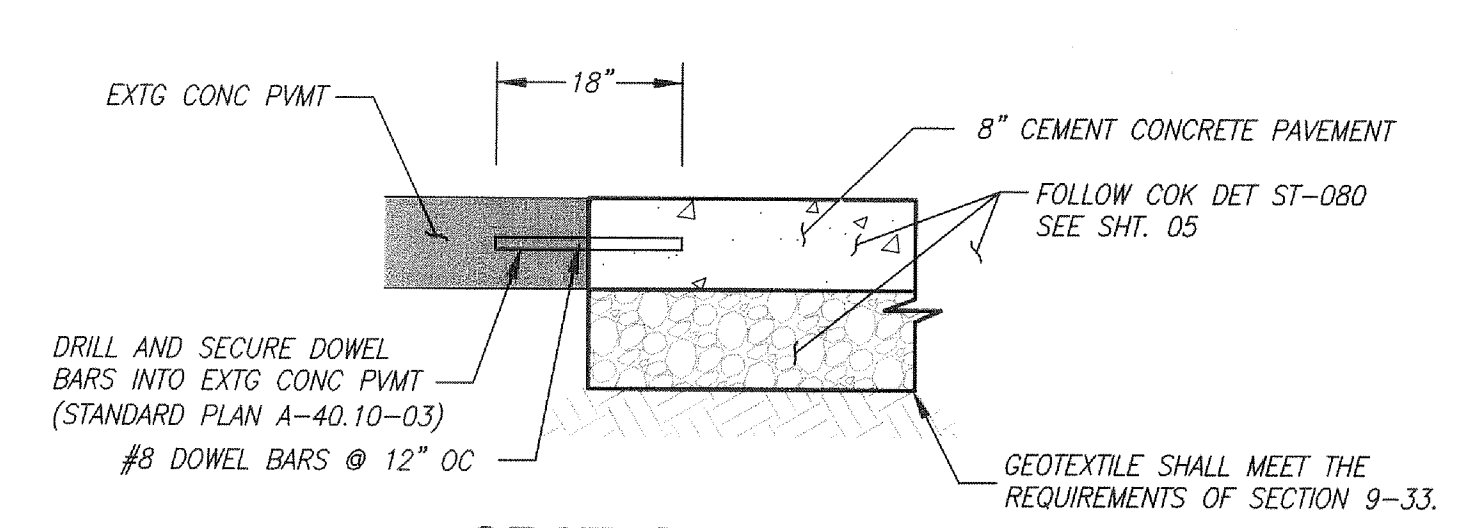
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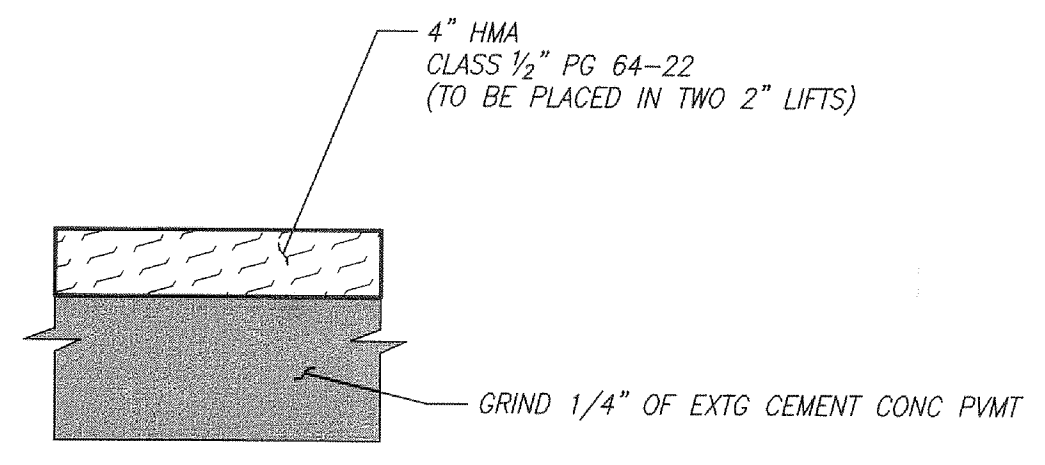
W MAIN ST
 STA 0+62.94 TO STA 1+77.50



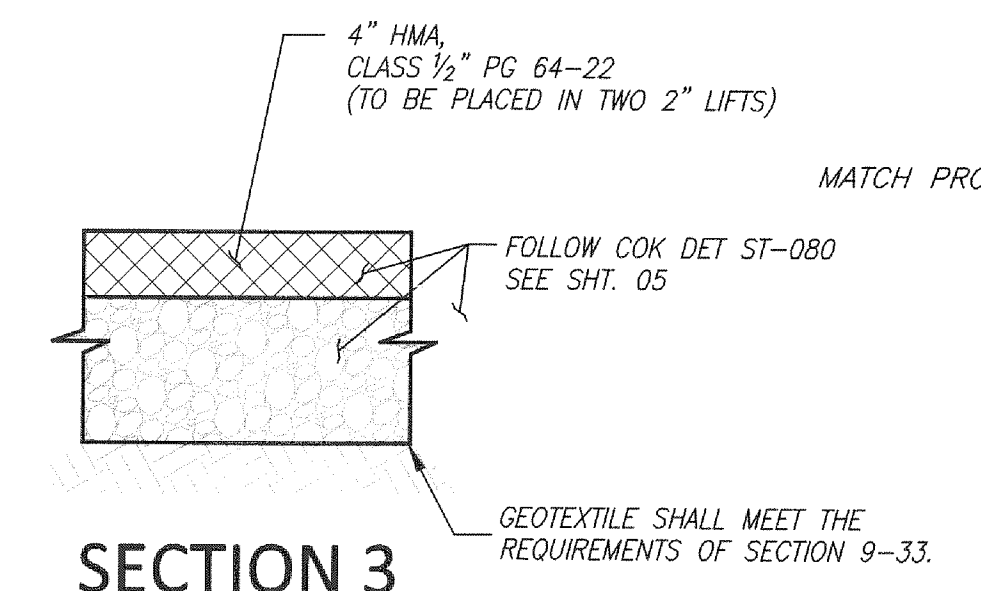
W MAIN ST
 STA 2+59.50 TO STA 6+88.00
 STA 7+79.00 TO STA 8+63 (END)



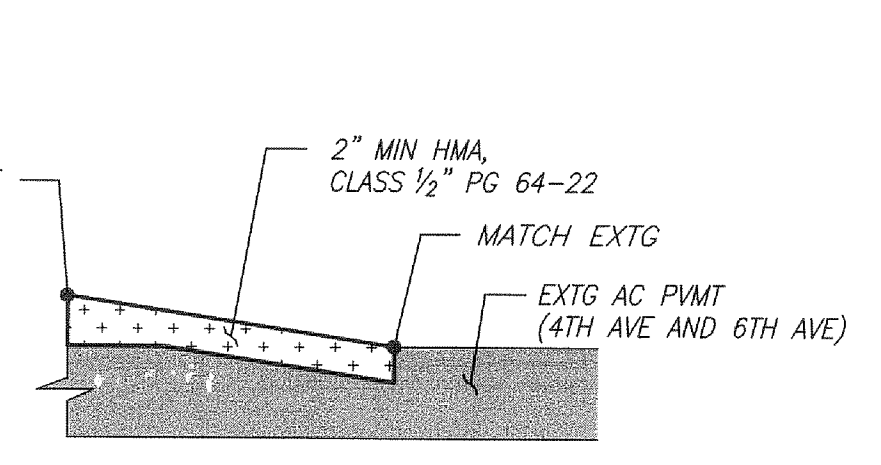
SECTION 1
 FULL DEPTH CEMENT
 CONCRETE REPLACEMENT
 STA 3+42.50 TO 3+57.50
 STA 4+19.62 TO 5+26.92
 STA 4+28.20 TO 4+55.32
 STA 4+91.13 TO 5+27.37



SECTION 2
 RAISED INTERSECTION
 (4TH AVE AND 6TH AVE)
 STA 1+77.50 TO 2+49.50
 STA 6+98.00 TO 7+69.00



SECTION 3
 FULL DEPTH HMA PVMT
 REPLACEMENT
 STA 0+47.31 TO 0+62.94
 STA 1+77.50 TO 1+87.50
 STA 4+55.56 TO 4+91.22
 STA 6+88.00 TO 6+98.00
 STA 7+69.00 TO 7+79.00
 STA 8+51.50 TO 8+61.50



SECTION 4
 HMA PVMT OVERLAY
 (TRANSITION AREA 4TH AVE AND 6TH AVE)
 STA 2+13.36 TO 2+33.91
 STA 2+03.09 TO 2+33.26
 STA 7+16.34 TO 7+51.32
 STA 7+14.18 TO 7+53.71

** SOME VARIANCE FROM THE PROPOSED 1.5% SLOPE ACROSS THE SIDEWALK MAY BE NEEDED TO MATCH EXTG, BUT SHALL NOT EXCEED 2%. SLOPE VARIANCES SHOULD OCCUR IN THE FURNISHING ZONE.



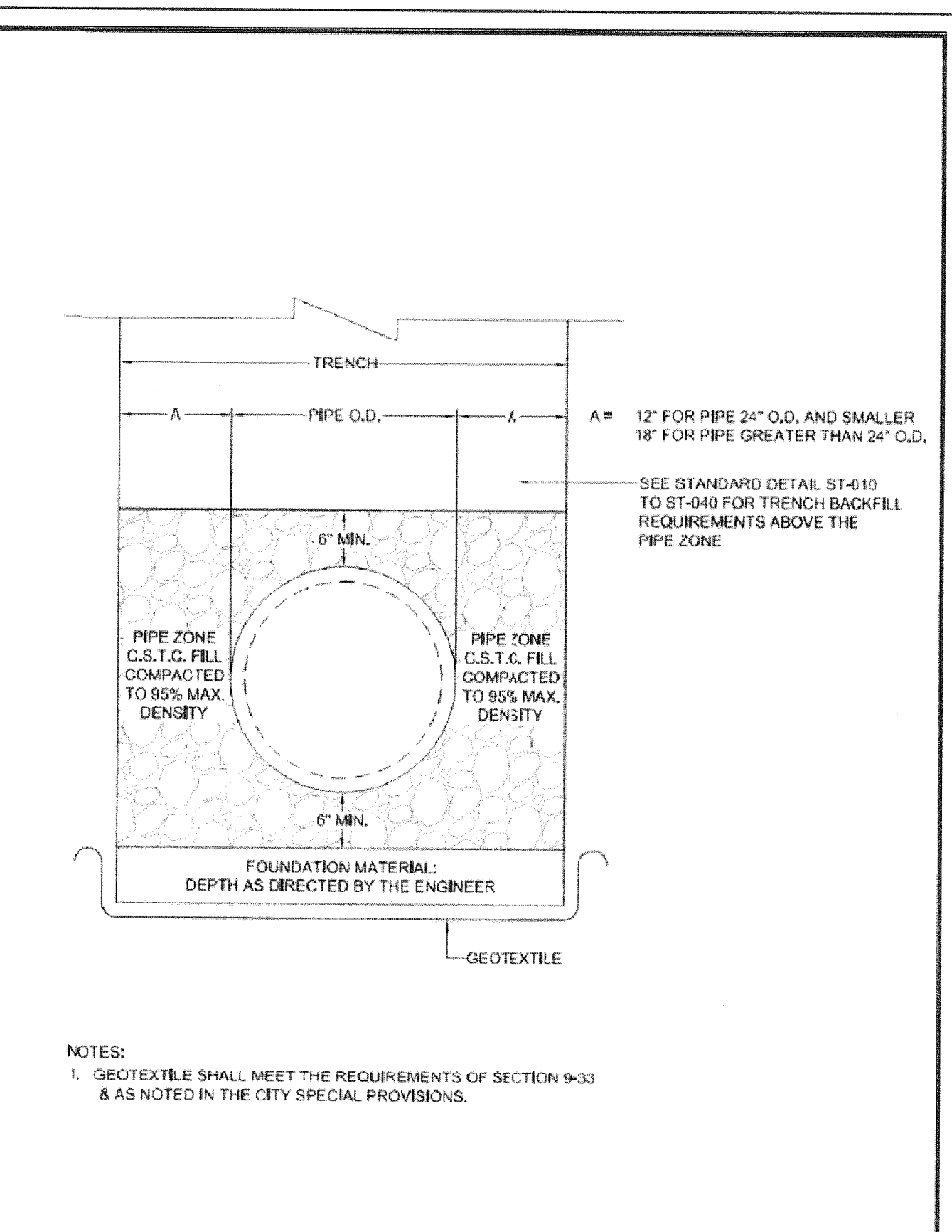
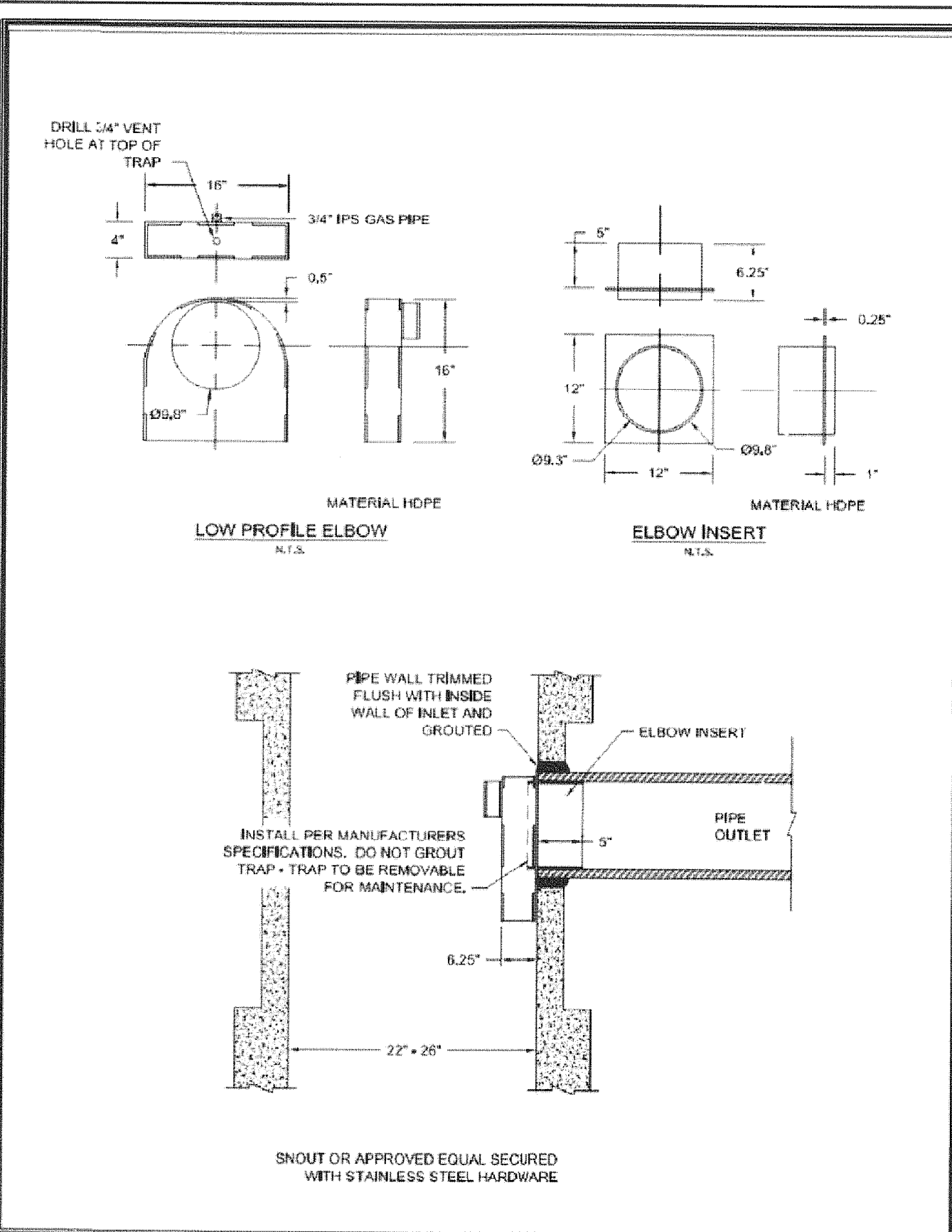
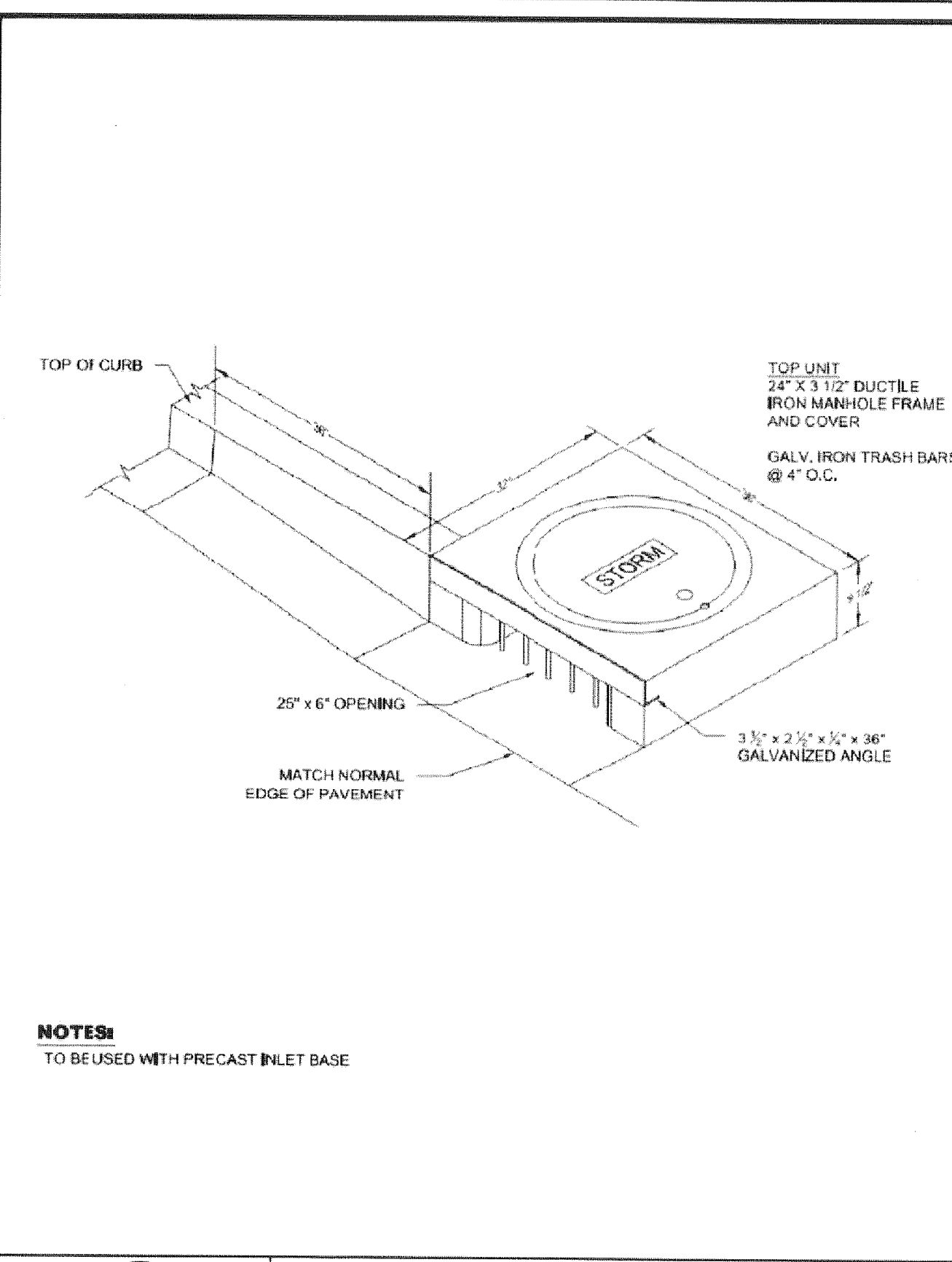
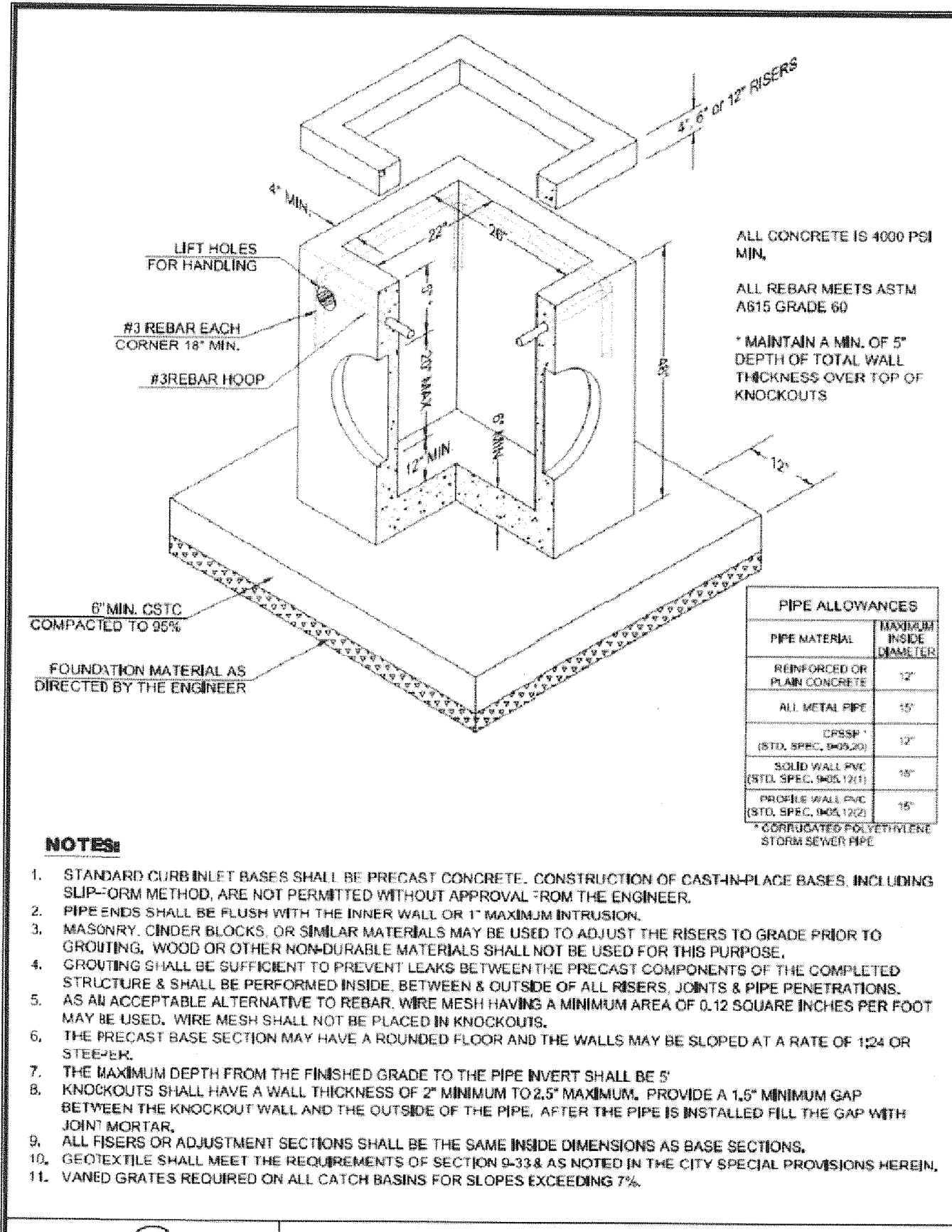
REVISION	DATE	DESCRIPTION	BY
JOB No.	13564E		
Designed By:	MAK		
Drawn By:	NAR		
Checked By:	KMA		
DATE:	10/30/2015		
SCALE:	AS SHOWN		
DWG NO.:	TY01		

Exp 10-26-16

**WEST MAIN STREET
 REVITALIZATION PROJECT
 TYPICAL SECTIONS
 WEST MAIN STREET**

CITY OF KELSO
 PUBLIC WORKS DEPARTMENT
 203 S. PACIFIC AVE. SUITE 205
 KELSO, WA 98626

SHEET
 NUMBER
03 of 57

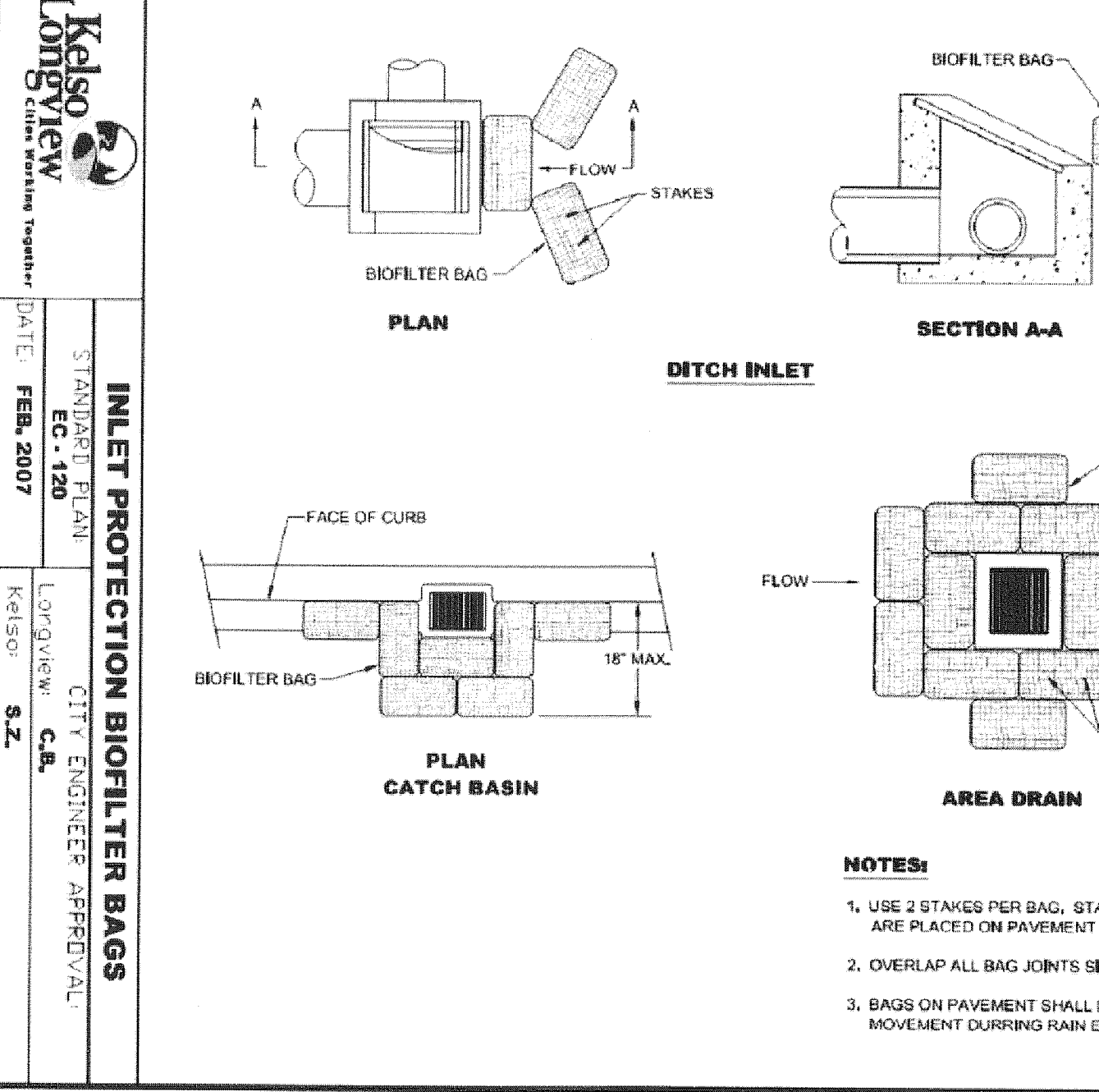
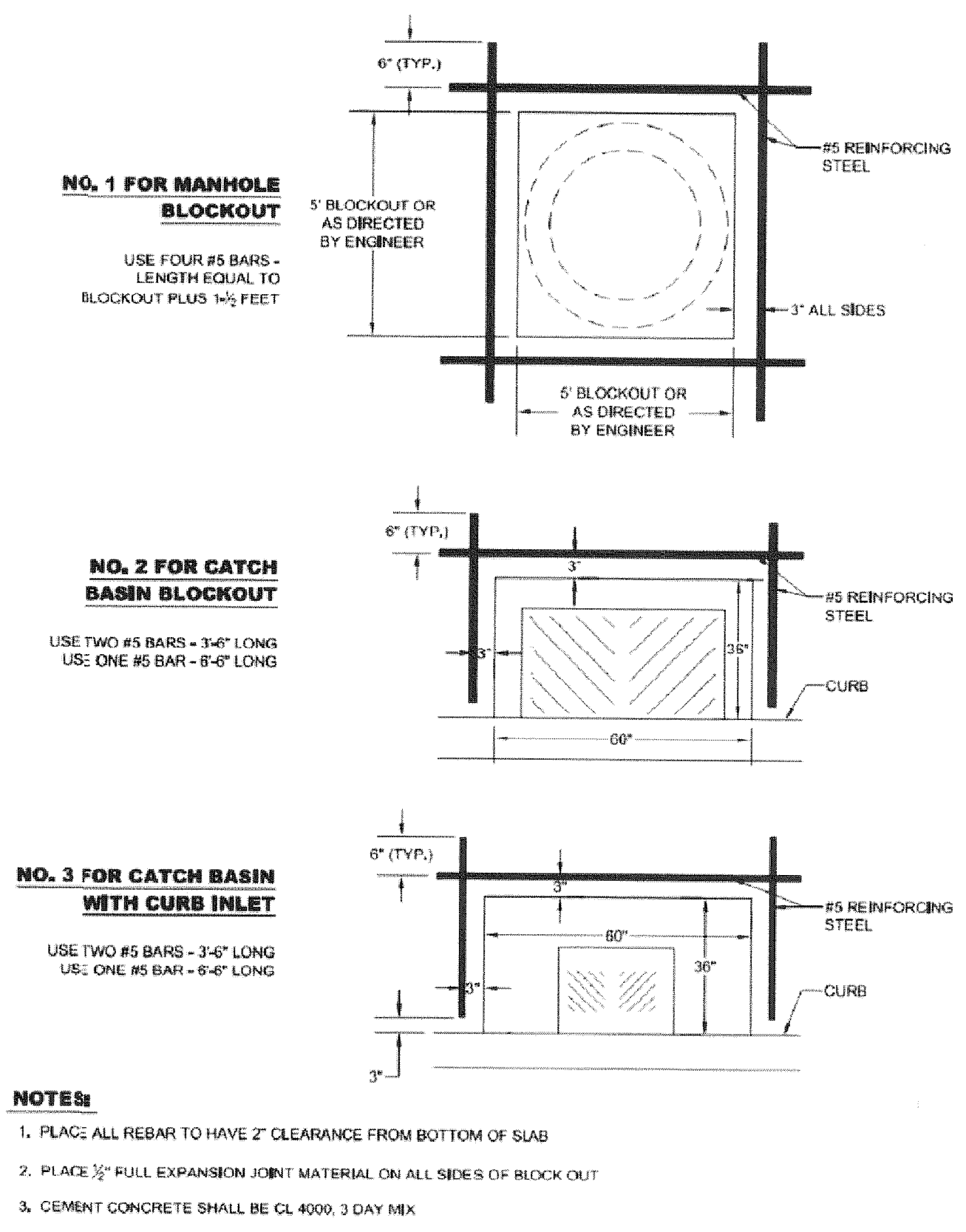
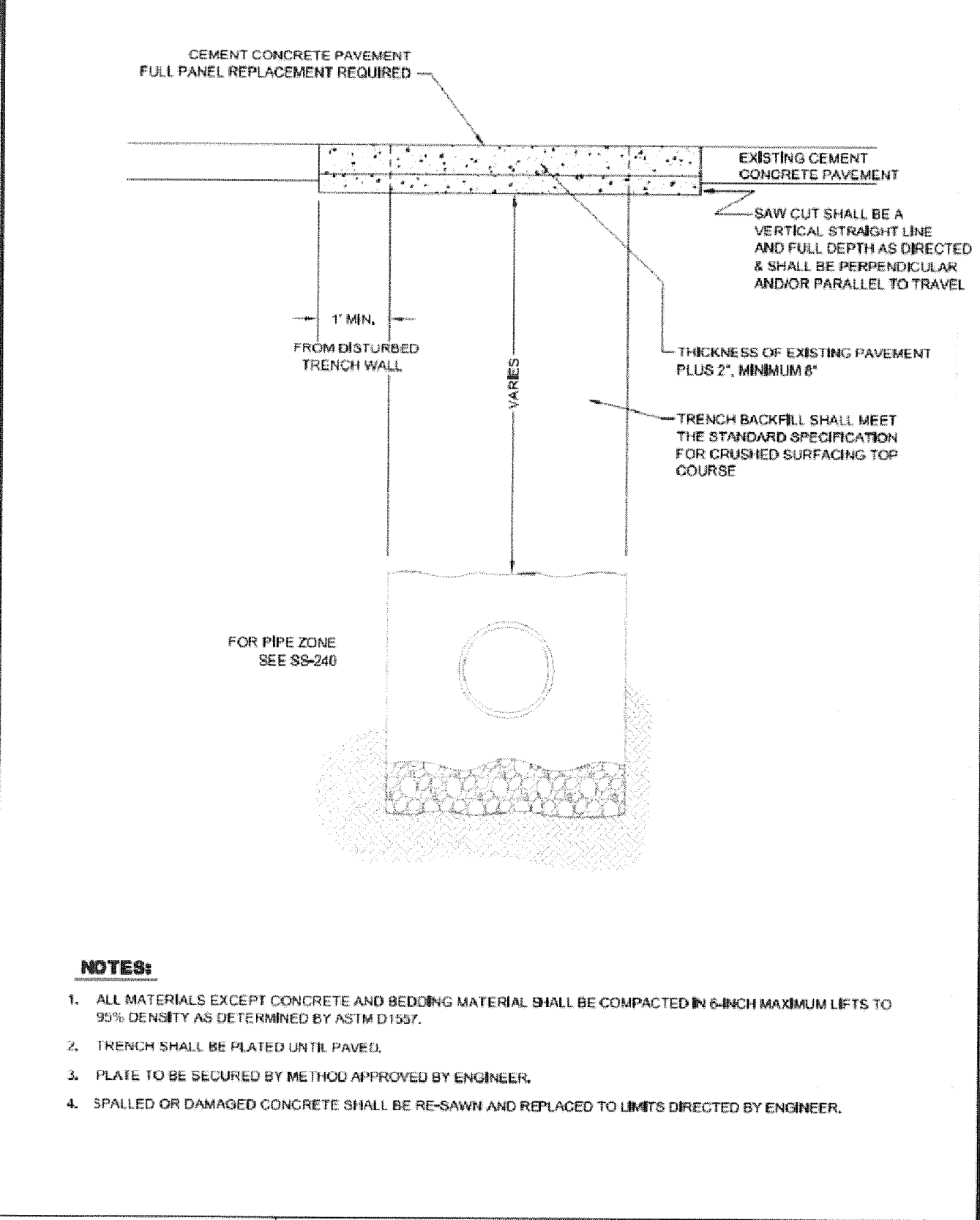


PRECAST CATCH BASIN	
STANDARD PLAN: SD - 010	CITY ENGINEER APPROVAL: Longview: C.B., Kelso: S.Z.
DATE: FEB. 2008	

CURB INLET	
STANDARD PLAN: SD - 080	CITY ENGINEER APPROVAL: Longview: C.B., Kelso: S.Z.
DATE: FEB. 2007	

CATCH BASIN OUTLET PIPE TRAP	
STANDARD PLAN: SD - 250	CITY ENGINEER APPROVAL: Longview: C.B., Kelso: S.Z.
DATE: FEB. 2008	

PIPE BEDDING	
STANDARD PLAN: SS - 240	CITY ENGINEER APPROVAL: Longview: C.B., Kelso: S.Z.
DATE: 2008	



CEMENT CONCRETE PAVEMENT TRENCH RESTORATION	
STANDARD PLAN: ST - 030	CITY ENGINEER APPROVAL: Longview: C.B., Kelso: S.Z.
DATE: FEB. 2008	

CEMENT CONCRETE STREET BLOCKOUTS	
STANDARD PLAN: ST - 070	CITY ENGINEER APPROVAL: Longview: C.B., Kelso: S.Z.
DATE: FEB. 2007	

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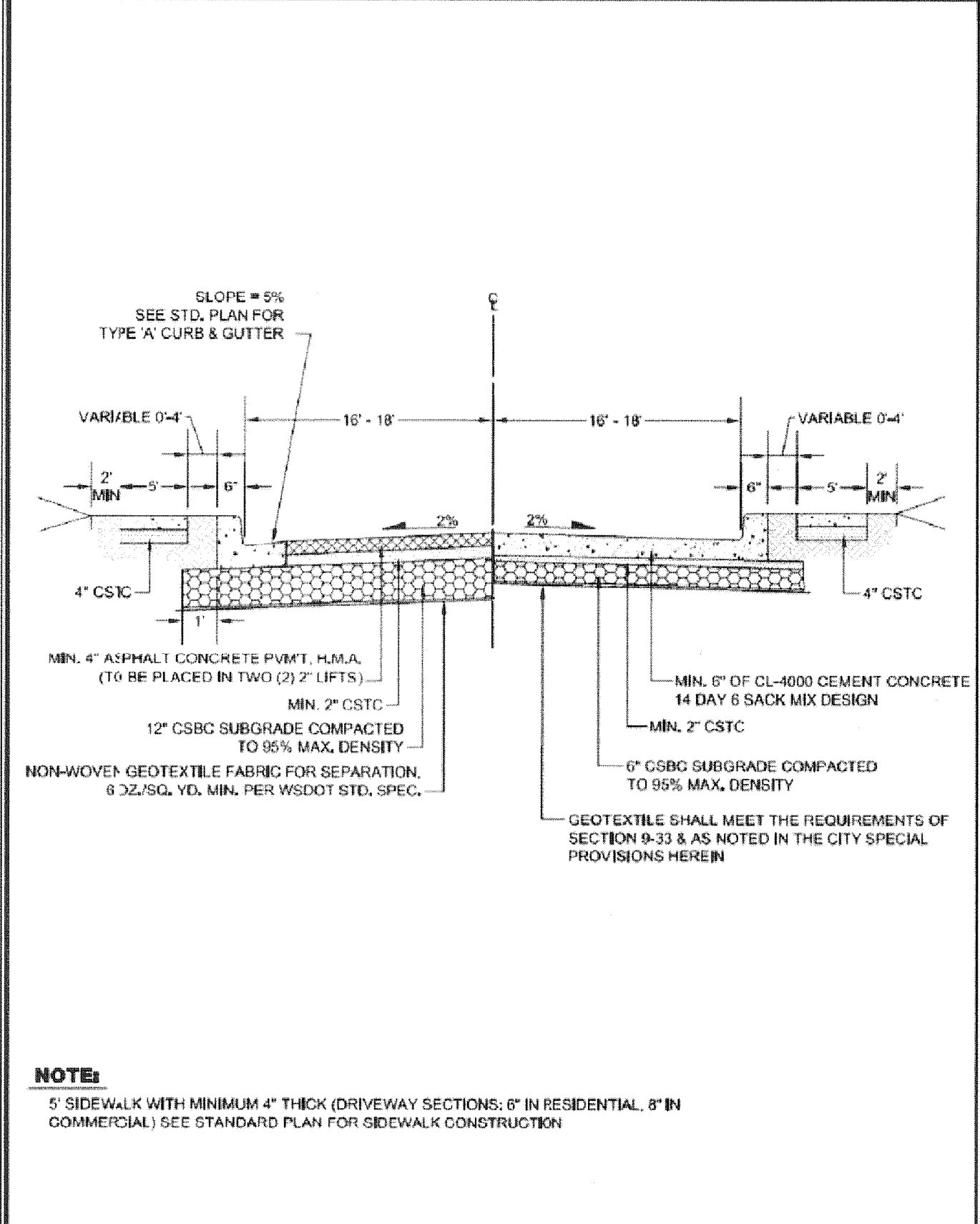
WEST MAIN STREET REVITALIZATION PROJECT
CITY OF KELSO STANDARD DETAILS
STORM, EROSION CONTROL AND RESTORATION

CITY OF KELSO
PUBLIC WORKS DEPARTMENT
203 S. PACIFIC AVE. SUITE 205
KELSO, WA 98626

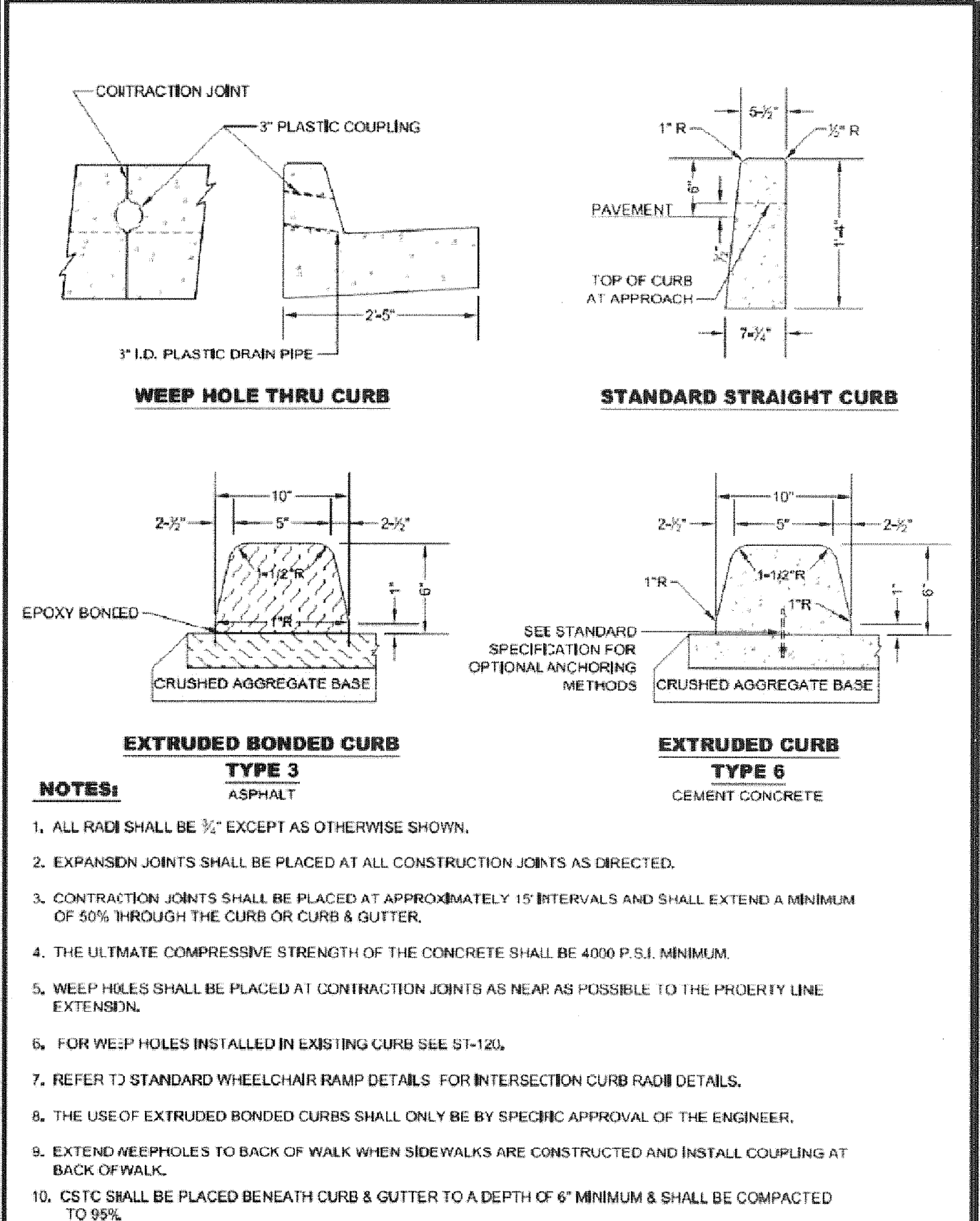
REVISION	DATE	DESCRIPTION	BY
JOB No.	13564E		
Designed By:	MAK		
Drawn By:	NAR		
Checked By:	KMA		
DATE:	10/30/2015		
SCALE:	AS SHOWN		
DWG NO.:	D01		

Exp 10-28-1c

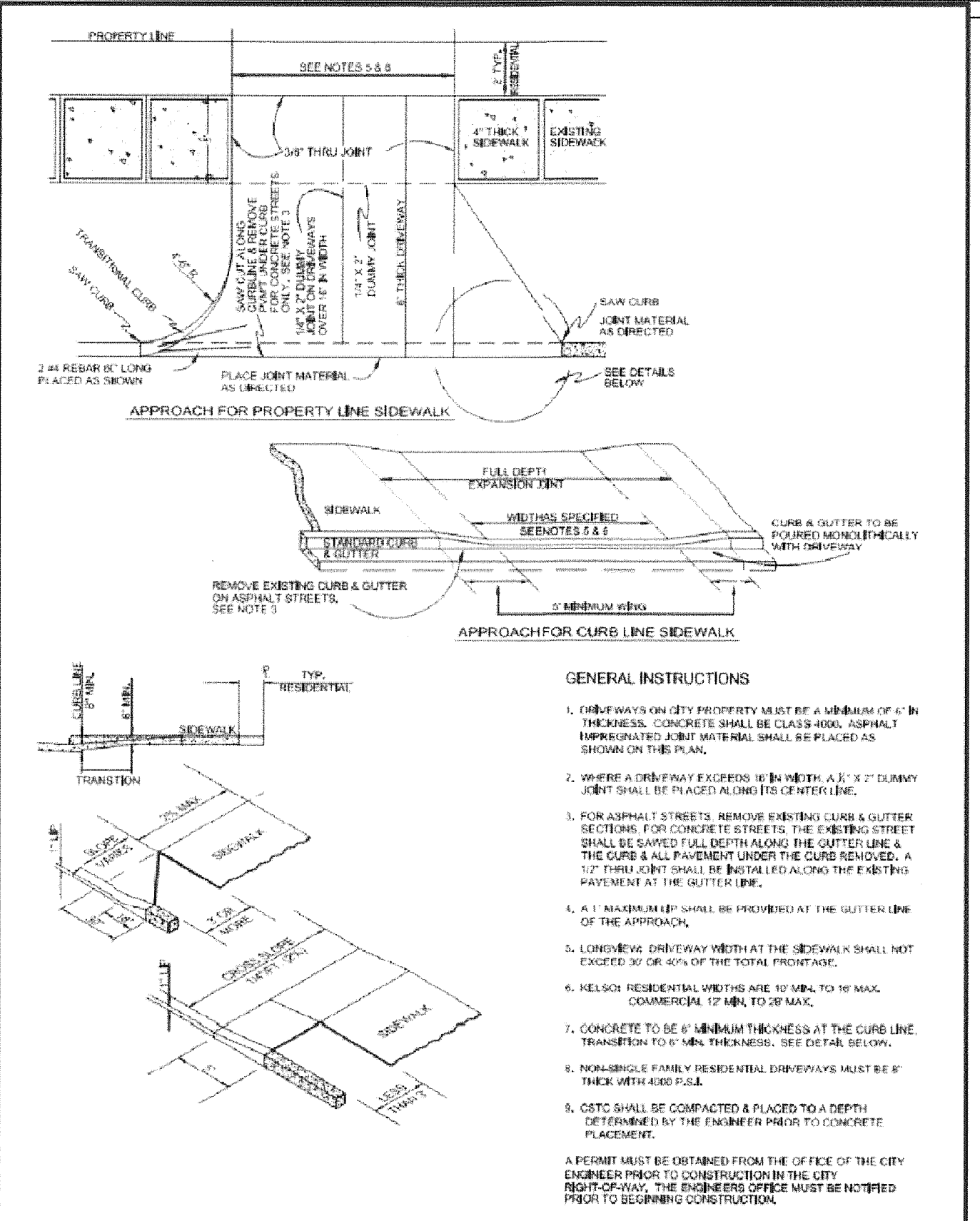
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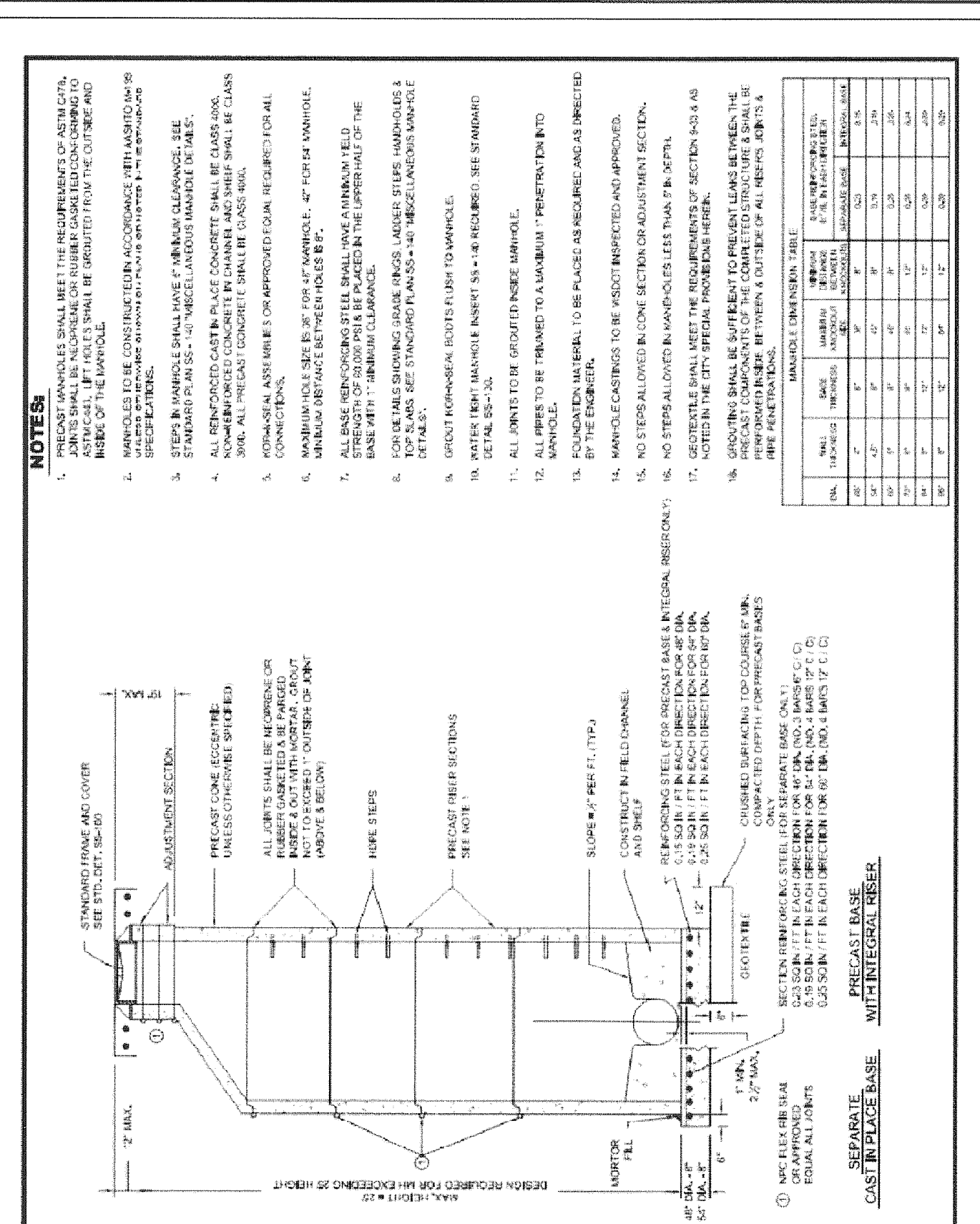
Kelso Longview Cities Working Together	LOCAL ACCESS STREET SECTION	
	STANDARD PLAN: ST-080	CITY ENGINEER APPROVAL: Longview: C.B., Kelso: S.Z.
	DATE: FEB. 2008	



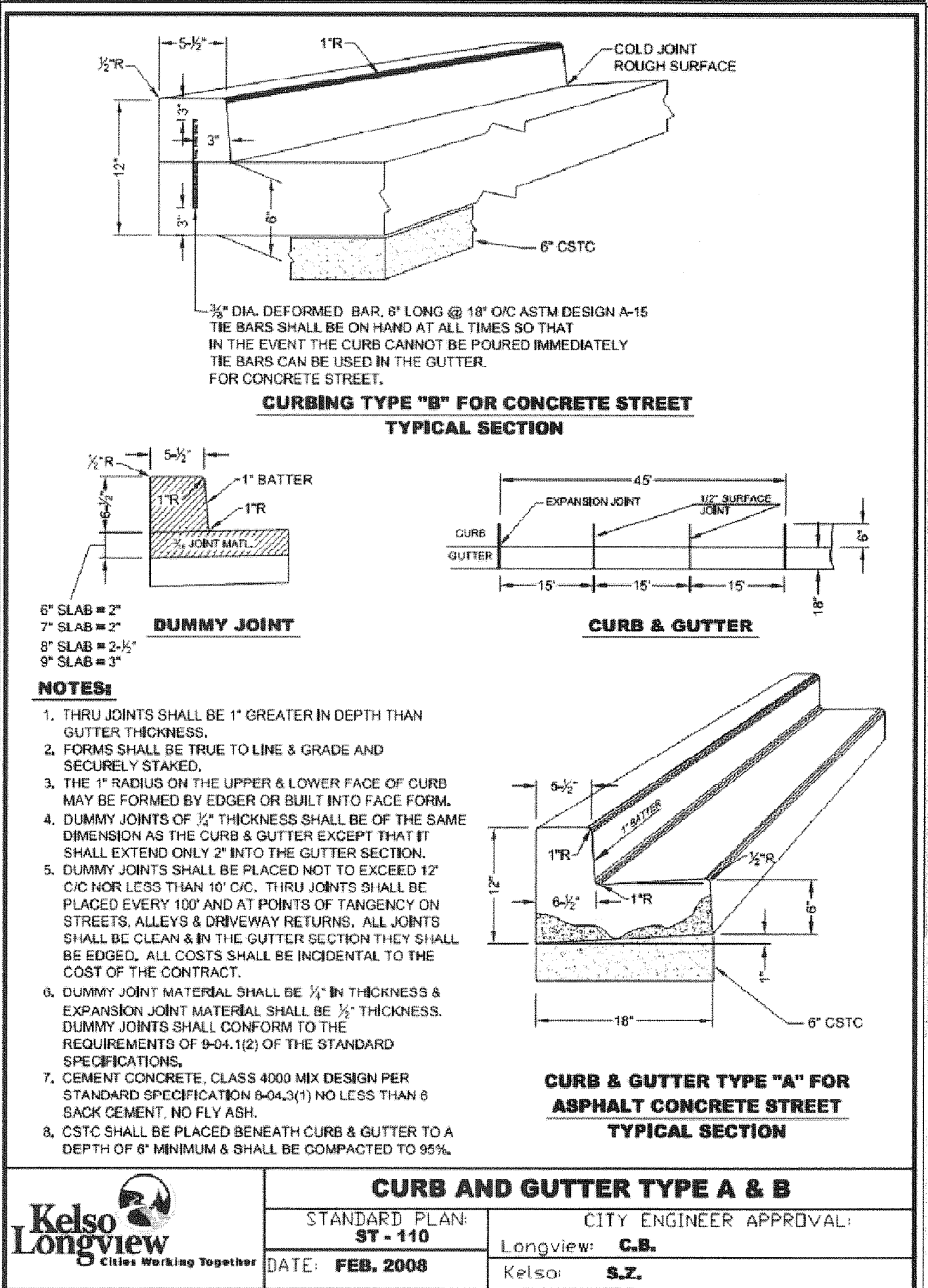
Kelso Longview Cities Working Together	CURB CONSTRUCTION	
	STANDARD PLAN: ST-090	CITY ENGINEER APPROVAL: Longview: C.B., Kelso: S.Z.
	DATE: FEB. 2008	



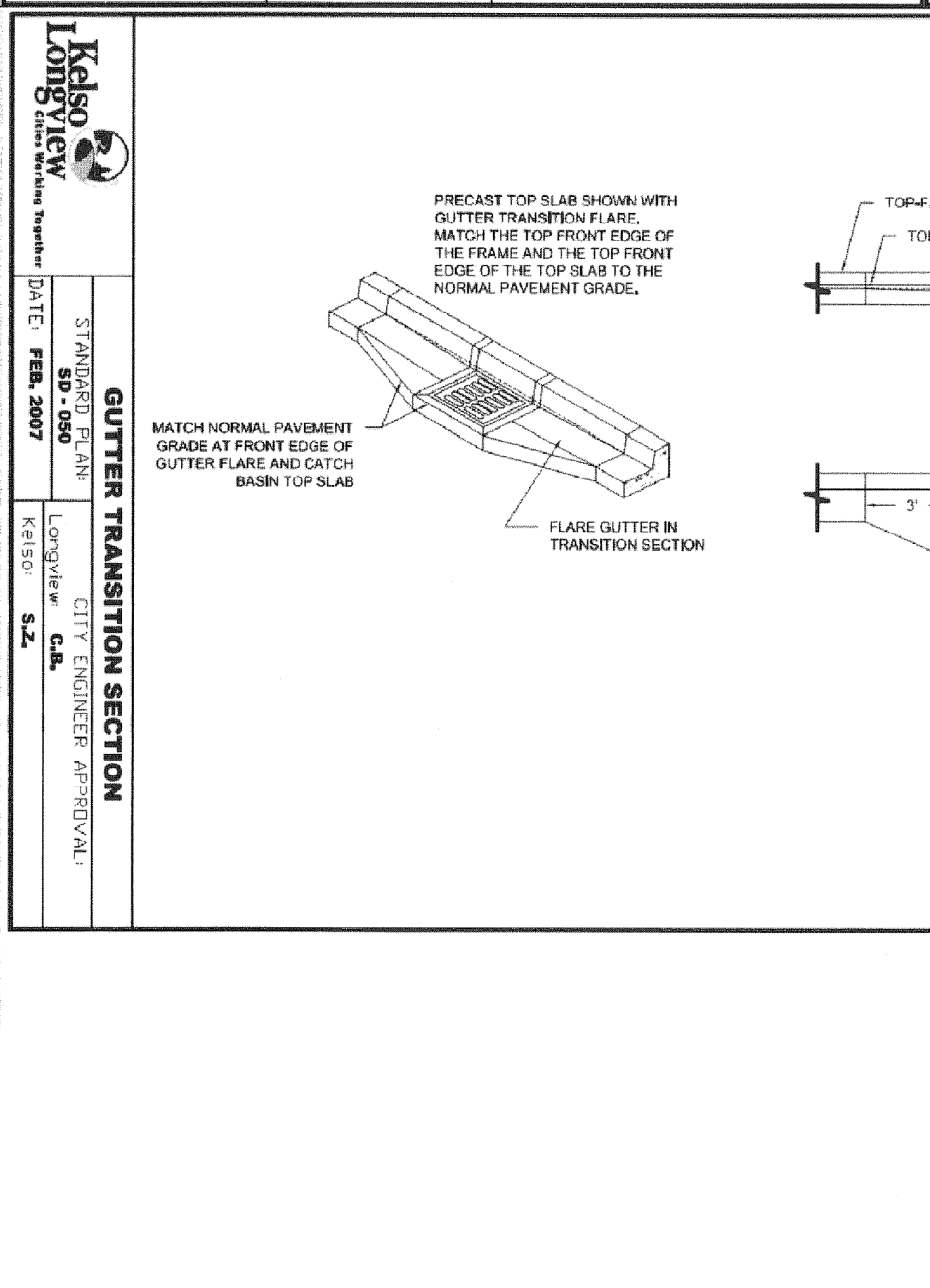
Kelso Longview Cities Working Together	DRIVEWAY APPROACH	
	STANDARD PLAN: ST-160	CITY ENGINEER APPROVAL: Longview: C.B., Kelso: S.Z.
	DATE: FEB. 2008	



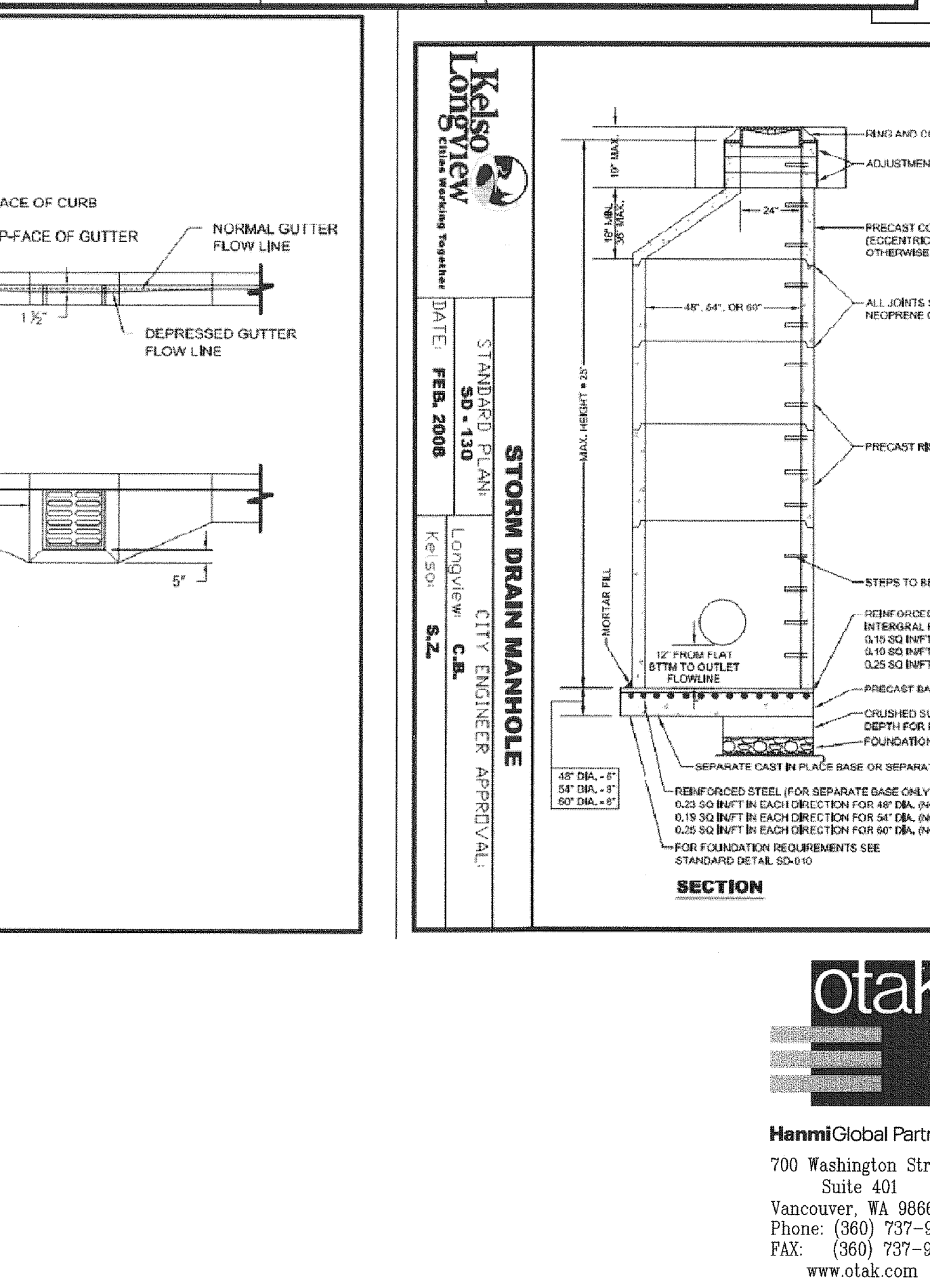
Kelso Longview Cities Working Together	SANITARY SEWER MANHOLE	
	STANDARD PLAN: SS-020	CITY ENGINEER APPROVAL: Longview: C.B., Kelso: S.Z.
	DATE: FEB. 2008	



Kelso Longview Cities Working Together	CURB AND GUTTER TYPE A & B	
	STANDARD PLAN: ST-110	CITY ENGINEER APPROVAL: Longview: C.B., Kelso: S.Z.
	DATE: FEB. 2008	



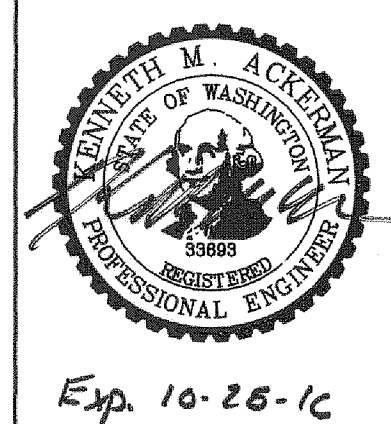
Kelso Longview Cities Working Together	GUTTER TRANSITION SECTION	
	STANDARD PLAN: ST-090	CITY ENGINEER APPROVAL: Longview: C.B., Kelso: S.Z.
	DATE: FEB. 2007	



Kelso Longview Cities Working Together	STORM DRAIN MANHOLE	
	STANDARD PLAN: ST-130	CITY ENGINEER APPROVAL: Longview: C.B., Kelso: S.Z.
	DATE: FEB. 2008	



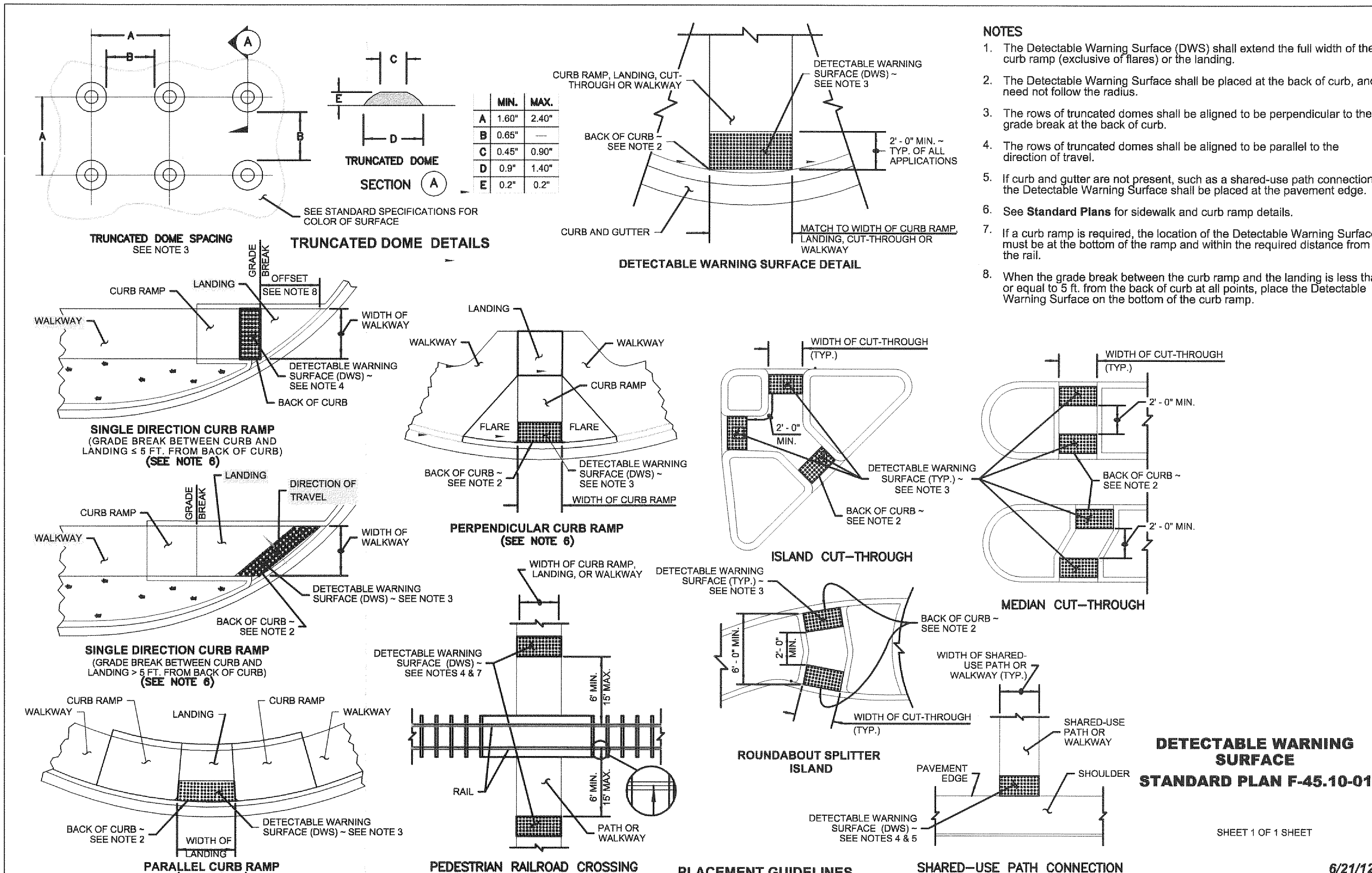
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 FAX: (360) 737-9651
 www.otak.com



Exp. 10-25-16

REVISION	DATE	DESCRIPTION	BY
JOB No.	13564E	WEST MAIN STREET REVITALIZATION PROJECT	
Designed By:	MAK	CITY OF KELSO STANDARD DETAILS TRANSPORTATION	
Drawn By:	NAR	CITY OF KELSO	
Checked By:	KMA	PUBLIC WORKS DEPARTMENT	
DATE:	10/30/2015	203 S. PACIFIC AVE., SUITE 205	
SCALE:	AS SHOWN	KELSO, WA 98626	
DWG NO.:	D02	SHEET NUMBER	
		05 of 57	

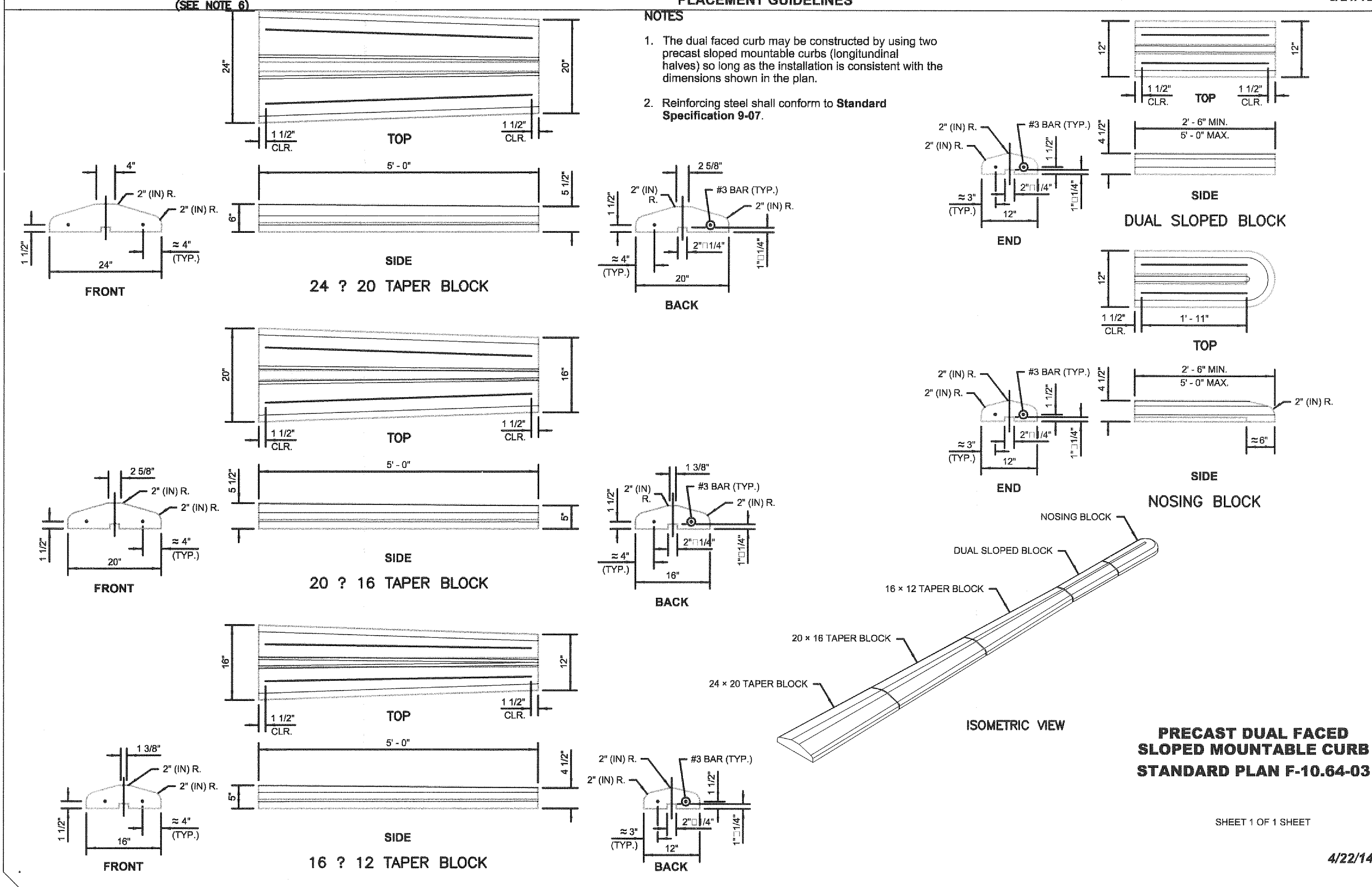
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- NOTES**
- The Detectable Warning Surface (DWS) shall extend the full width of the curb ramp (exclusive of flares) or the landing.
 - The Detectable Warning Surface shall be placed at the back of curb, and need not follow the radius.
 - The rows of truncated domes shall be aligned to be perpendicular to the grade break at the back of curb.
 - The rows of truncated domes shall be aligned to be parallel to the direction of travel.
 - If curb and gutter are not present, such as a shared-use path connection, the Detectable Warning Surface shall be placed at the pavement edge.
 - See **Standard Plans** for sidewalk and curb ramp details.
 - If a curb ramp is required, the location of the Detectable Warning Surface must be at the bottom of the ramp and within the required distance from the rail.
 - When the grade break between the curb ramp and the landing is less than or equal to 5 ft. from the back of curb at all points, place the Detectable Warning Surface on the bottom of the curb ramp.

DETECTABLE WARNING SURFACE STANDARD PLAN F-45.10-01

SHEET 1 OF 1 SHEET



- NOTES**
- The dual faced curb may be constructed by using two precast sloped mountable curbs (longitudinal halves) so long as the installation is consistent with the dimensions shown in the plan.
 - Reinforcing steel shall conform to **Standard Specification 9-07**.

PRECAST DUAL FACED SLOPED MOUNTABLE CURB STANDARD PLAN F-10.64-03

SHEET 1 OF 1 SHEET

4/22/14

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REVISION	DATE	DESCRIPTION	BY
JOB No.	13564E	WEST MAIN STREET REVITALIZATION PROJECT WSDOT STANDARD DETAILS TRANSPORTATION	
Designed By:	MAK		
Drawn By:	NAR		
Checked By:	KMA		
DATE:	10/30/2015	CITY OF KELSO PUBLIC WORKS DEPARTMENT 203 S. PACIFIC AVE. SUITE 205 KELSO, WA 98626	
SCALE:	AS SHOWN		
DWG NO.:	D03		
			SHEET NUMBER 06 of 57

Exp. 10-25-16

1. NO FILLER REQUIRED FOR CONSTRUCTION JOINT.
 2. CONCRETE MIX (COMMERCIAL MIX) 3000 P.S.I.
 3. CONCRETE SEALER TO BE PLACED WITHIN (2) TWO HOURS AFTER FINISHING IS COMPLETE.
 4. 1/2" EDGE SURFACING SHALL BE SCORED INTO EACH INDIVIDUAL CONCRETE PANEL FOR UNIFORM FINISH.
 5. EXPANSION JOINTS AT CURB MUST ALIGN WITH EXPANSION JOINTS IN SIDEWALK.
 6. V GROOVES ON 5 FT. SIDEWALKS SHALL BE PLACED ON 5 FT. INTERVALS. V GROOVES SHALL NOT BE LESS THAN 1/2" DEEP.
 7. DUMMY JOINT ON 5 FT. SIDEWALKS SHALL BE PLACED ON 15 FT. INTERVALS.
 8. EXPANSION JOINTS SHALL BE PLACED AT POINTS OF TANGENCY ON STREETS, ALLEYS & DRIVEWAY RETURNS. ALL JOINTS SHALL BE CLEAN AND IN THE GUTTER SECTIONS SHALL BE EDGED. ALL COSTS SHALL BE INCIDENTAL TO THE COST OF THE CONTRACT.
 9. AS A GENERAL RULE RESIDENTIAL SIDEWALKS SHALL BE PLACED 2 FT. FROM THE PROPERTY LINE AND COMMERCIAL SIDEWALKS SHALL BE PLACED ON THE PROPERTY LINE.
 10. EDGING SHALL BE 1/2" WIDE SMOOTH BORDERS WITH 1/2" EDGE RADIUS EITHER FOLLOWING EXISTING PATTERN OR AS SHOWN. (ALSO USED ON ALL JOINTS).
 11. FINISH SHALL BE BROOMED TRANSVERSE TO THE RUN OF THE SIDEWALK.
 12. FOR MAILBOXES BEING PLACED IN WALK SEE ST-200.
 13. FOR STREETLIGHTS BEING PLACED IN WALK SEE ST-190.
 14. MATCH EXISTING SCORE AND SHIMMER MARKS WITH SURROUNDING SIDEWALK IN AREA OR AS DIRECTED BY INSPECTOR.
 15. PLACEMENT OF 2" DUMMY JOINT REQUIRED AT POINTS WHERE NEW CONCRETE IS POURED AGAINST EXISTING CONCRETE.
 16. JOINT MATERIAL TO BE ASPHALT IMPREGNATED.
 17. FULL PANEL REPLACEMENT REQUIRED FOR ALL DAMAGED OR VANISHED CONCRETE. NO GRAFFITI DAMAGE OR REPAIRS WILL BE ACCEPTED.

SIDEWALKS
 STANDARD PLAN: ST-150
 DATE: FEB. 2008
 CITY ENGINEER APPROVAL: Longview, C.B.
 Kelso, S.Z.

Kelso Longview Cities Working Together

WHEEL CHAIR RAMPS (NEW CONSTRUCTION)
 STANDARD PLAN: ST-140
 DATE: FEB. 2008
 CITY ENGINEER APPROVAL: Longview, C.B.
 Kelso, S.Z.

NOTES:
 1. CURB RAMP DESIGNS A & B ARE THE PREFERRED DESIGNS. USE CURB RAMP DESIGN C ONLY WHEN THE AREA IS NOT WALK WIDE. USE CURB RAMP DESIGN D ONLY ON LARGE RADIUS INTERSECTIONS (GREATER THAN 30').
 2. A MINIMUM 3' WIDE ACCESSIBLE ROUTE SHALL BE MAINTAINED IN ALL PEDESTRIAN ACCESSIBLE AREAS.
 3. CONTRACTION JOINTS SHALL BE PLACED ALONG SIDEWALKS AT 12' MAXIMUM SPACING. ALL JOINTS SHALL BE CLEAN & EDGED.
 4. BULETS SHALL BE LOCATED SO THAT RUNOFF DOES NOT FLOW PAST CURB RAMPS.
 5. THIS AREA MAY ALSO BE UTILIZED FOR THE FOLLOWING: DEPOSITABLE PARKING (BENCHES OR SEATING AREAS), OPEN GRADE PARKING, BENCHES OR SEATING AREAS.
 6. CURB RAMPS SHALL BE POURED AS A SEPARATE UNIT FROM THE SIDEWALK ISOLATED BY EXPANSION JOINT MATERIAL ON ALL SIDES EXCEPT AT END OF RAMP NEXT TO ROADWAY.
 7. MINIMUM LANDING WIDTH IS 4' FOR NEW CONSTRUCTION. FOR ALTERATIONS, THE MINIMUM IS 3'. SEE CONTRACT PLANS.
 8. DETECTABLE WARNING PATTERNS MAY BE CREATED BY ANY METHOD THAT WILL ACHIEVE THE TRUNCATED CONE DIMENSIONS AND SPACING SHOWN. USE OF "CONCRETE STRIPS" TO CONSTRUCT BORDERS TEXTURING SHALL ONLY BE ALLOWED PRIOR TO APPROVAL OF AN ON-SITE TEST SAMPLE CONFORMING TO COMPLIANCE WITH ADA REQUIREMENTS.
 9. SEE CONTRACT PLANS FOR MOUNTING HEIGHT OR SIGN R77-601.
 10. CEMENT CONCRETE APPROACHES SHALL BE CONSTRUCTED OF AN UNRESTRICTED CONCRETE CLASS AND MAY BE POURED INTEGRAL WITH THE CURB.
 11. WHERE A WALK CONSTRUCTION IS NOT FEASIBLE, THE CURB OR ELEVATION BETWEEN SURFACES SHALL NOT EXCEED 2". THE EDGE OF THE HIGHER SURFACE UP TO 2" IN HEIGHT MAY BE VERTICAL. THE EDGE OF THE LOWER SURFACE UP TO 2" IN HEIGHT SHALL BE BEVELED WITH A SLOPE NO STEEPER THAN 2:1.
 12. WHERE AN EXISTING INTERSECTION, ALTERNATE DESIGN MAY BE NECESSARY. ALTERNATE DESIGNS MUST BE REVIEWED AND APPROVED BY THE CITY ENGINEER PRIOR TO CONSTRUCTION.
 13. AVOID PLACING FRAMING STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.
 14. CURB & GUTTER SHOWING: SEE CONTRACT PLANS FOR THE CURB DESIGN SPECIFIED. SEE STD PLAN S-100, S-100 & S-100 FOR CURB DETAILS.
 15. RAMP SLOPES SHALL NOT BE STEEPER THAN 1:4.
 16. SIGN R77-601 (TYP.) SEE NOTE 9.
 17. PRECAST CONCRETE CURB WITH CONCRETE BUMPER CURBS (TYP.)
 18. 4" PAINTED STRIPES 2' C.C.
 19. ACCESSIBLE FIRST STALL
 20. ACCESSIBLE LAST STALL
 21. ACCESSIBLE PARKING SHOWING WITH CONTIGUOUS CURB RAMP (SEE CONTRACT PLANS)

RECTANGULAR FRAME (REVERSIBLE)
 N.T.S.

DETAIL B
 RECESSED ALLEN HEAD CAP SCREW 5/8" - 11 NC x 2"
 GRATE
 FRAME
SECTION
 BOLT-DOWN DETAIL
 SEE NOTE 2

ISOMETRIC VIEW
 SHOWING THE VARIATIONS
 FRAME CAST INTO PRECAST ADJUSTMENT SECTION - SEE DETAIL THIS SHEET FOR ADJUSTMENT SECTION DETAILS
 FLANGE UPWARD

RECTANGULAR ADJUSTMENT SECTION
 N.T.S.

ONE #3 BAR HOOP FOR 6"
 TWO #3 BAR HOOPS FOR 12"

AS AN ACCEPTABLE ALTERNATIVE TO REBAR, WIRE MESH HAVING A MINIMUM AREA OF 0.12 SQUARE INCHES PER FOOT MAY BE USED FOR ADJUSTMENT SECTIONS.

SECTION A-A HMA DRIVEWAY / PAVEMENT RESTORATION
 0.25' HMA FOR PAVEMENT REPAIR CL. 1/2" PG64-22
 0.25' CRUSHED SURFACING TOP COURSE

SECTION A-A CONCRETE DRIVEWAY
 0.33' CEMENT CONCRETE (4000 PSI)
 0.33' CRUSHED SURFACING TOP COURSE

DRIVEWAY PAVING / PAVEMENT RESTORATION
 N.T.S.

SECTION A-A HMA EXTENDED DRIVEWAY

Mar 17, 2016 - 1:51pm

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- NOTES**
- THIS FRAME IS DESIGNED TO ACCOMMODATE 20" x 24" GRATES
 - BOLT-DOWN CAPABILITY IS REQUIRED ON ALL FRAMES, GRATES, AND COVERS, UNLESS SPECIFIED OTHERWISE IN THE CONTRACT. PROVIDE 2 HOLES IN THE FRAME THAT ARE VERTICALLY ALIGNED WITH THE GRATE OR COVER SLOTS. THE FRAME SHALL ACCEPT THE 5/8" - 11 NC x 2" ALLEN HEAD CAP SCREW BY BEING TAPPED, OR OTHER APPROVED MECHANISM. LOCATION OF BOLT-DOWN HOLES VARIES BY MANUFACTURER.
 - REFER TO STANDARD SPECIFICATION 9-05.15(2) FOR ADDITIONAL REQUIREMENTS.

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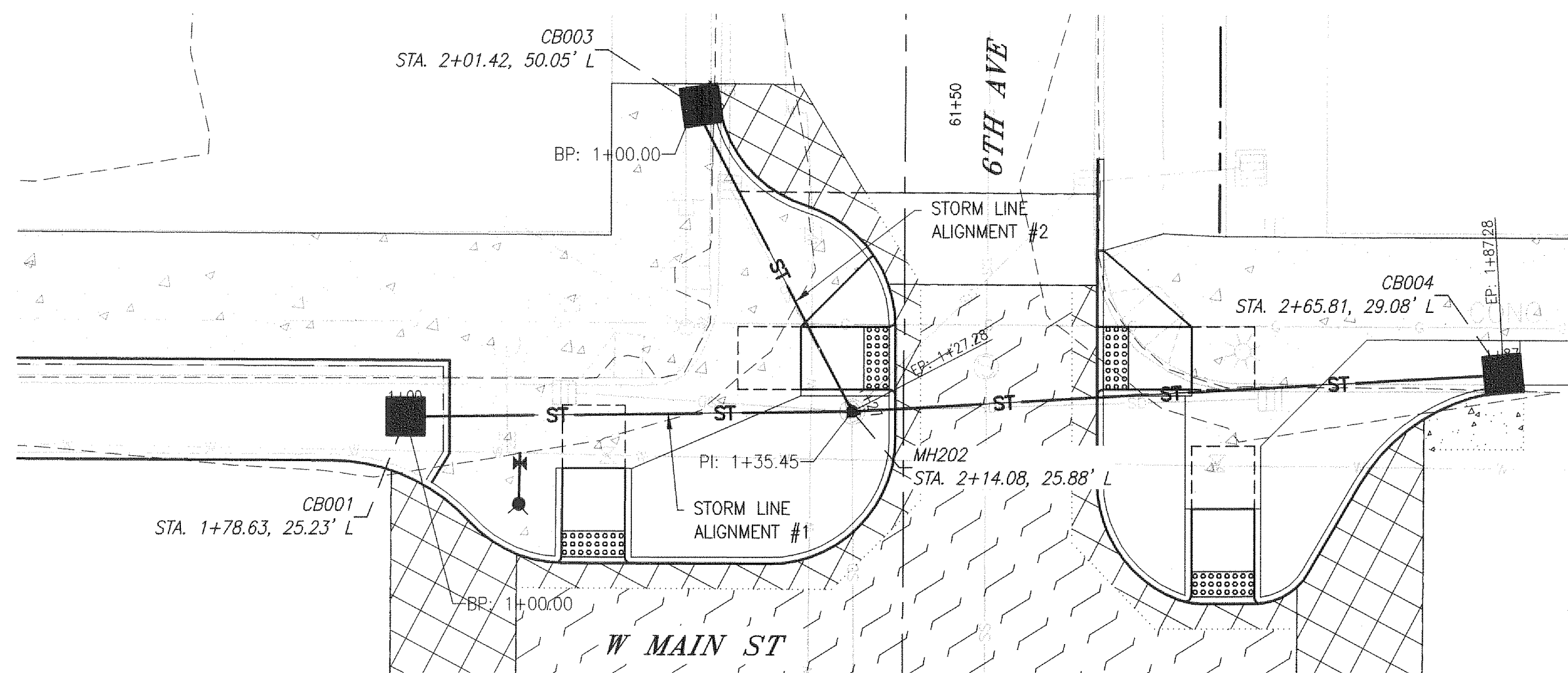
Exp. 10-26-16

REVISION	DATE	DESCRIPTION	BY
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Designed By:	MAK		
Drawn By:	NAR		
Checked By:	KMA		
DATE:	10/30/2015		
SCALE:	AS SHOWN		
DWG NO.:	D04		

WEST MAIN STREET REVITALIZATION PROJECT
 CITY OF KELSO STANDARD DETAILS
 TRANSPORTATION

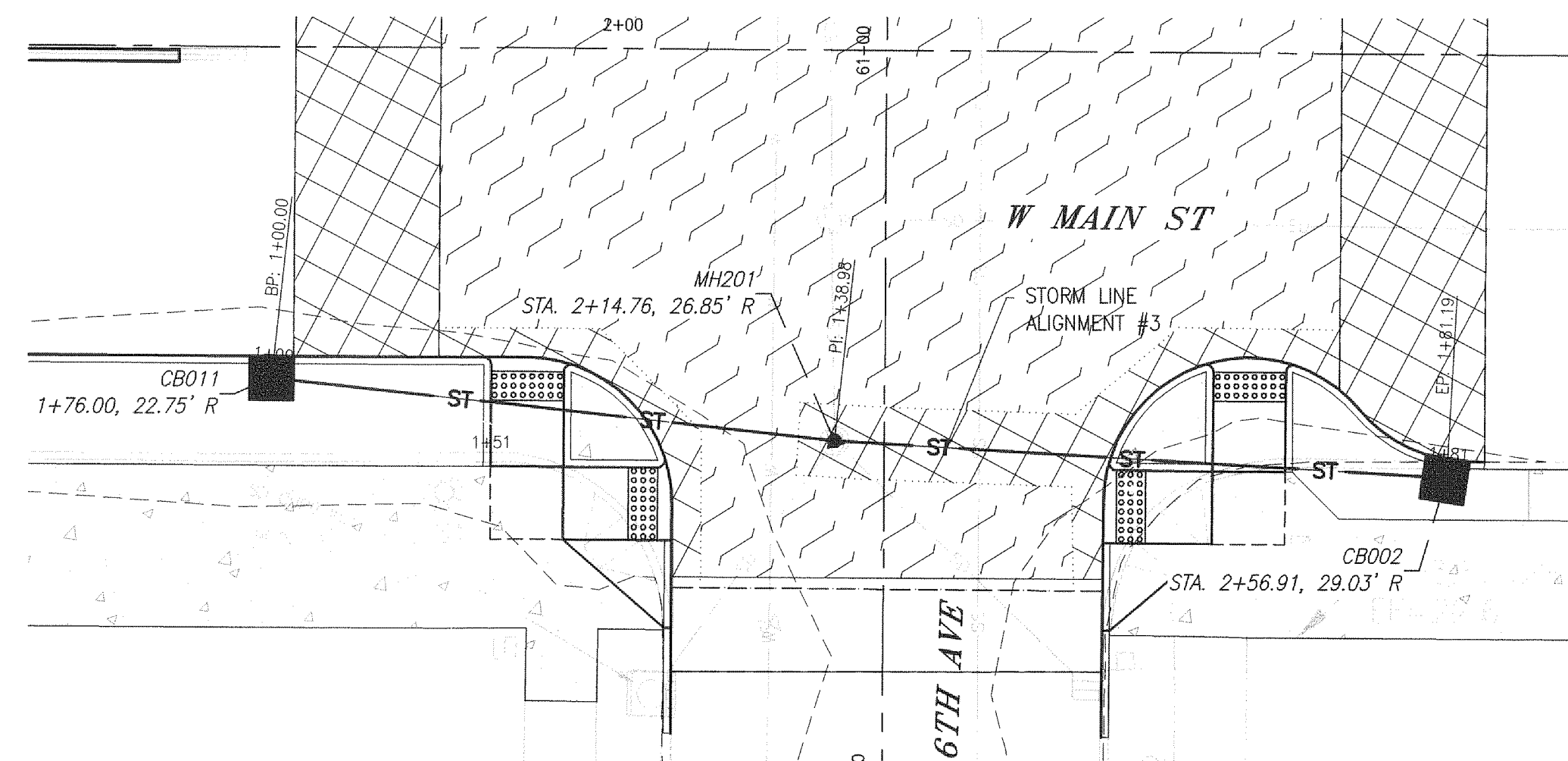
CITY OF KELSO
 PUBLIC WORKS DEPARTMENT
 203 S. PACIFIC AVE., SUITE 205
 KELSO, WA 98626

SHEET NUMBER
 07 of 57



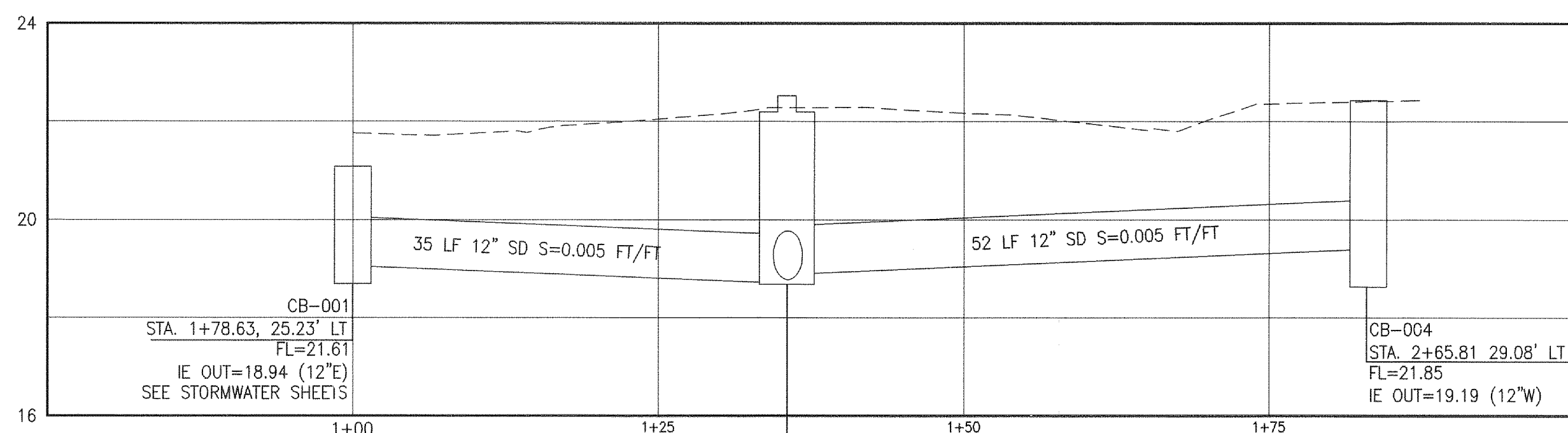
STORM ALIGNMENTS - MAIN & 6TH (NORTH SIDE)

SCALE: 1" = 10'



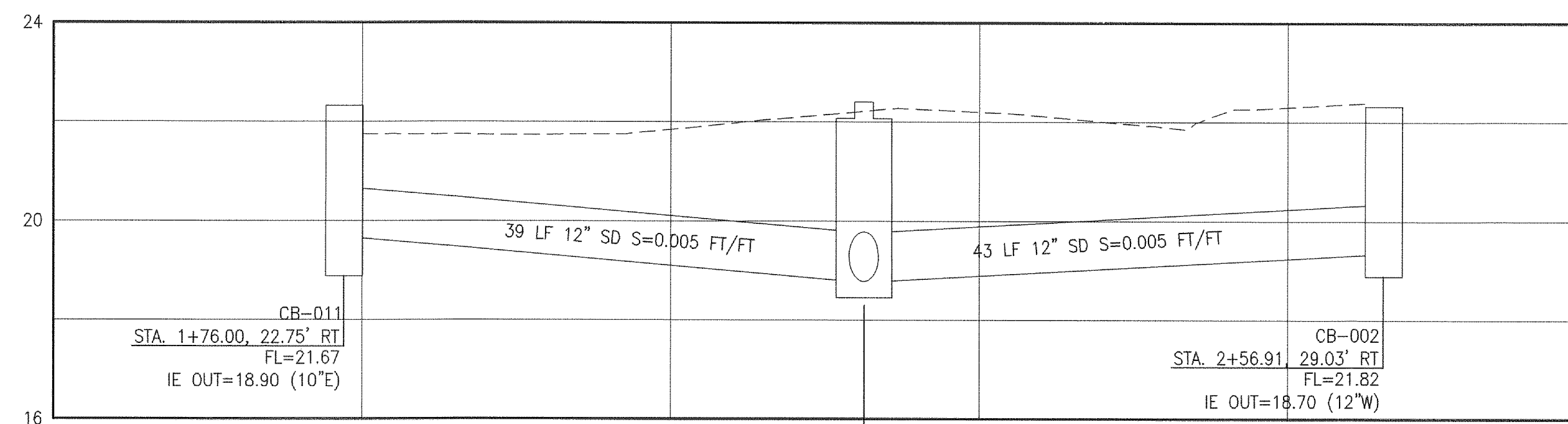
STORM ALIGNMENTS - MAIN & 6TH (SOUTH SIDE)

SCALE: 1" = 10'



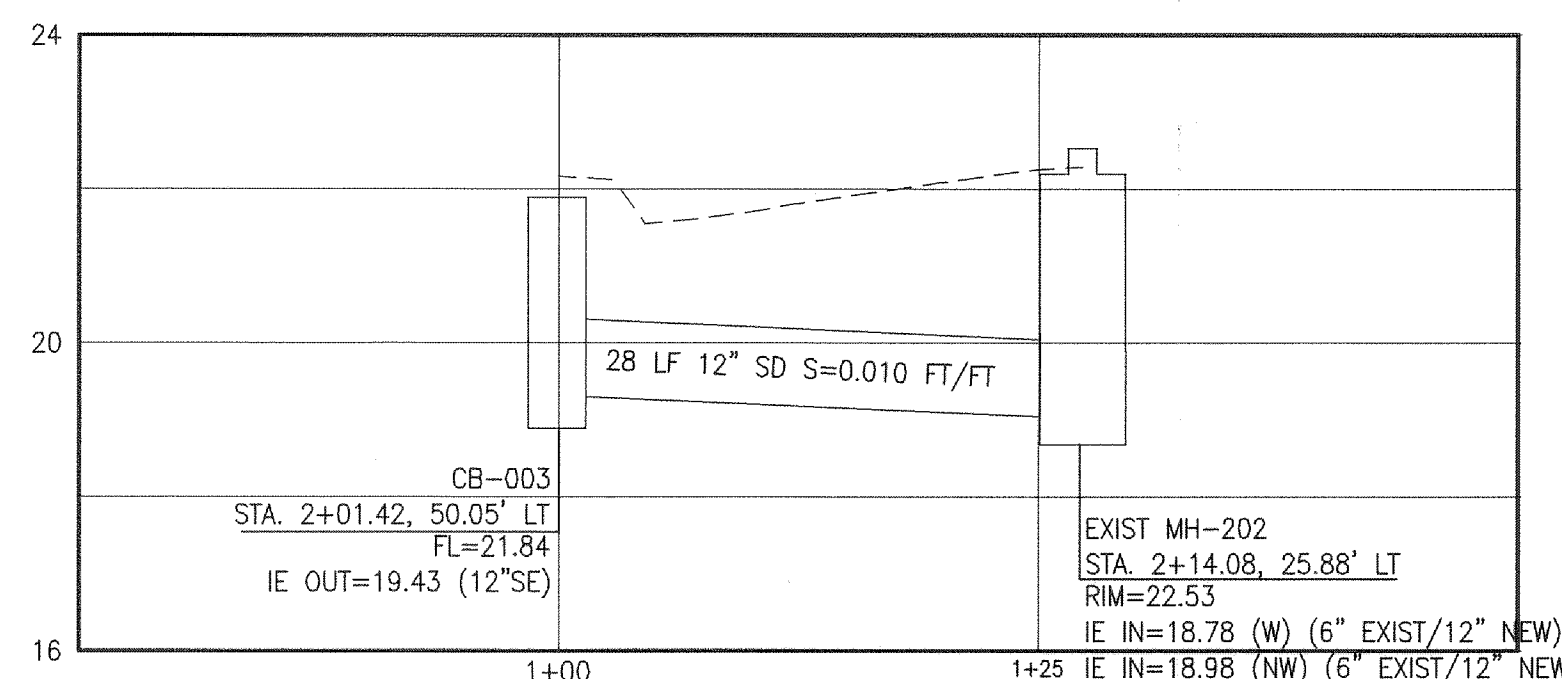
STORM #1

HORIZONTAL: 1" = 10'
VERTICAL: 1" = 2.5'



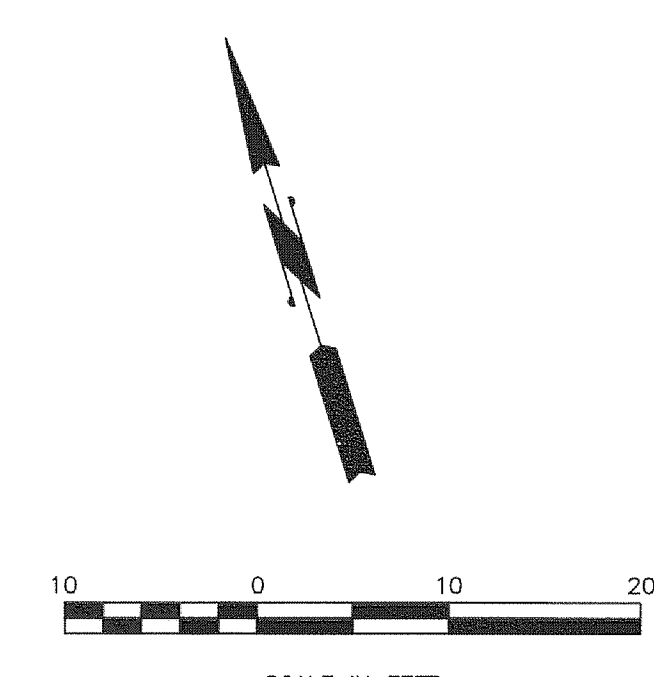
STORM #3

HORIZONTAL: 1" = 10'
VERTICAL: 1" = 2.5'

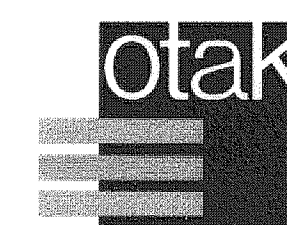


STORM #2

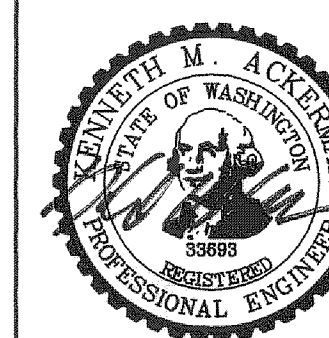
HORIZONTAL: 1" = 10'
VERTICAL: 1" = 2.5'



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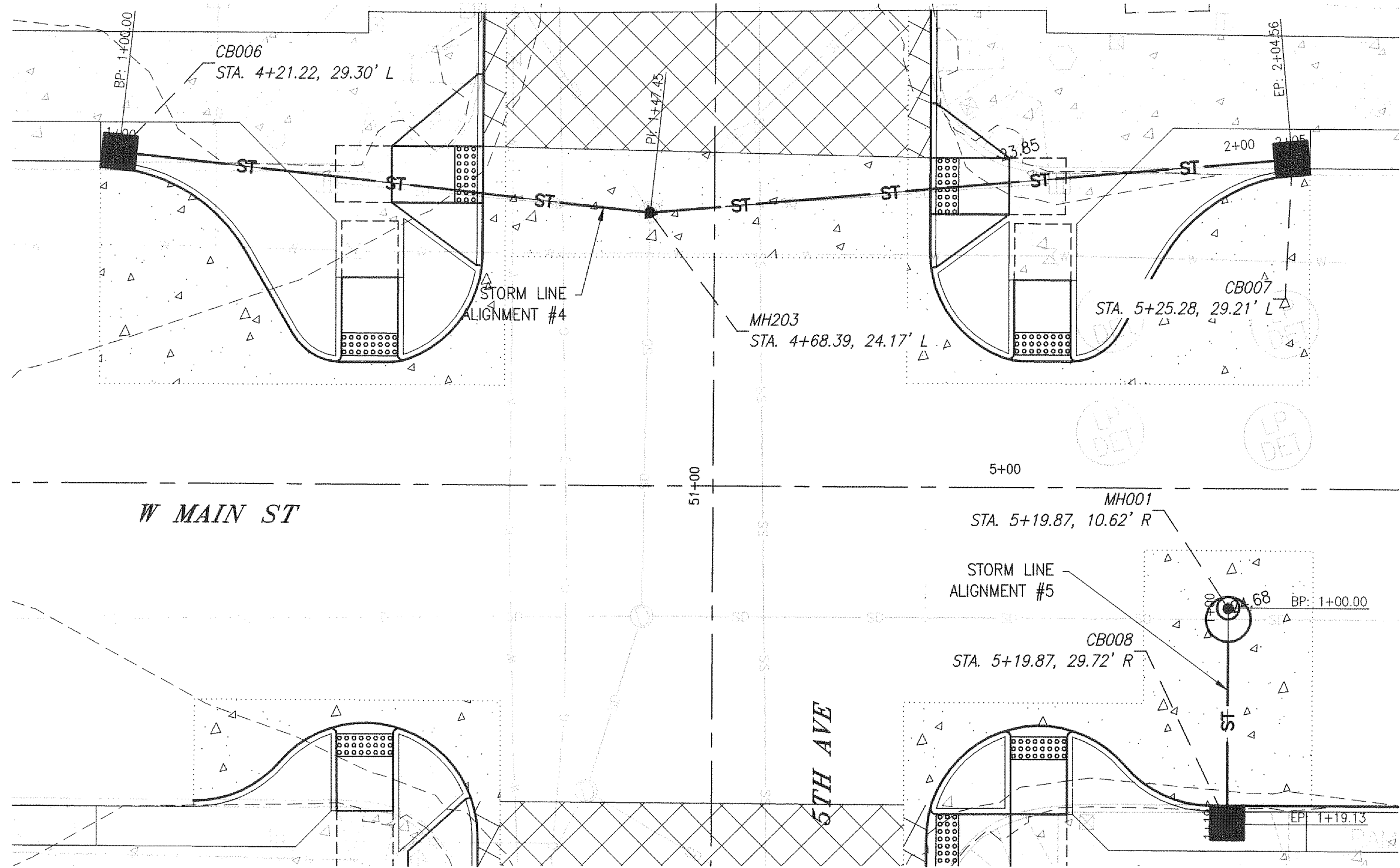


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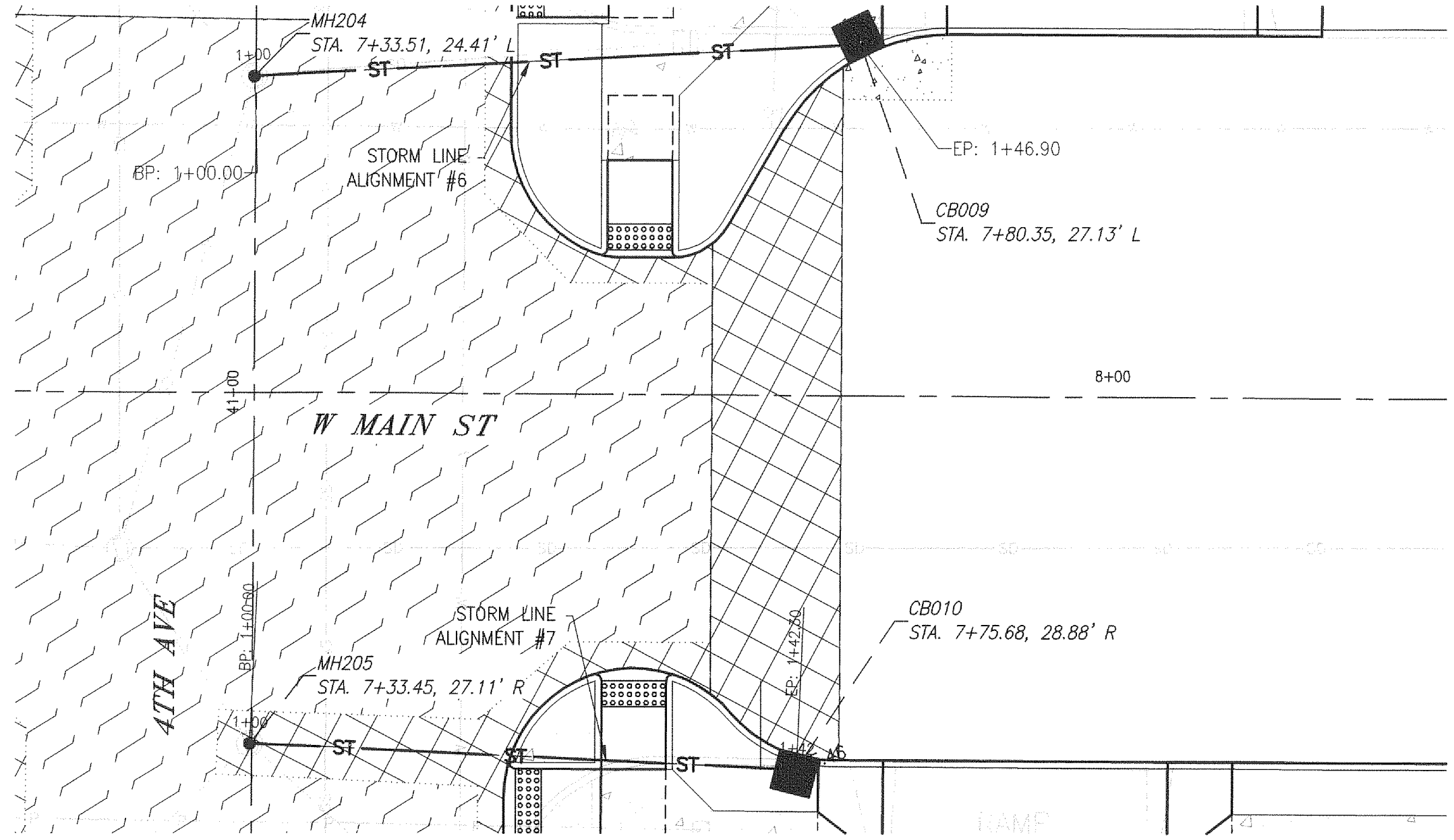
Exp. 10-26-16

REVISION	DATE	DESCRIPTION	BY
JOB No.	13564E	WEST MAIN STREET REVITALIZATION PROJECT STORM PLAN AND PROFILE W COWLITZ WAY AND W MAIN ST	
Designed By:	MAK		
Drawn By:	NAR		
Checked By:	KMA		
DATE:	10/30/2015	CITY OF KELSO PUBLIC WORKS DEPARTMENT 203 S. PACIFIC AVE. SUITE 205 KELSO, WA 98626	
SCALE:	AS SHOWN		
DWG NO.:	D05		
			SHEET NUMBER 08 of 57



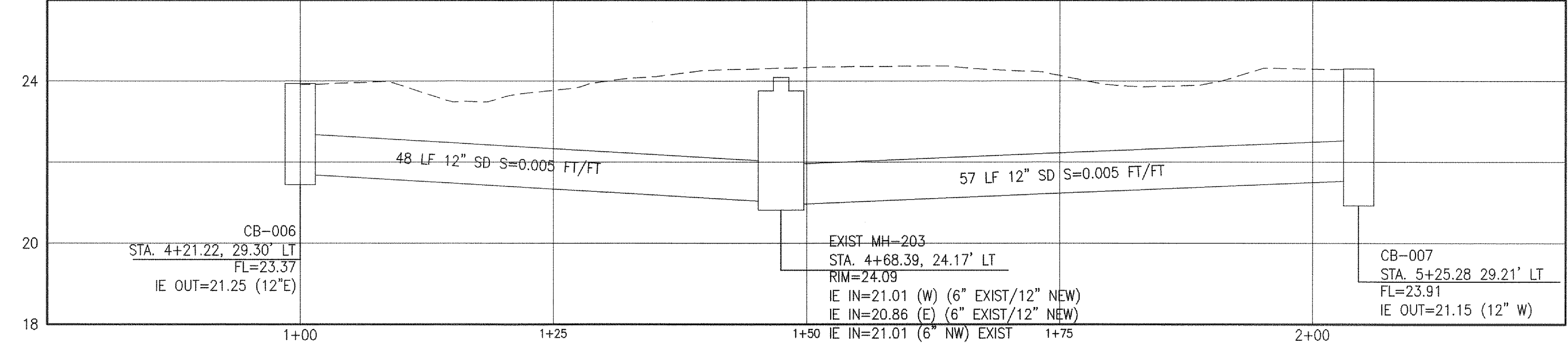
STORM ALIGNMENTS - MAIN & 5TH

SCALE: 1" = 10'



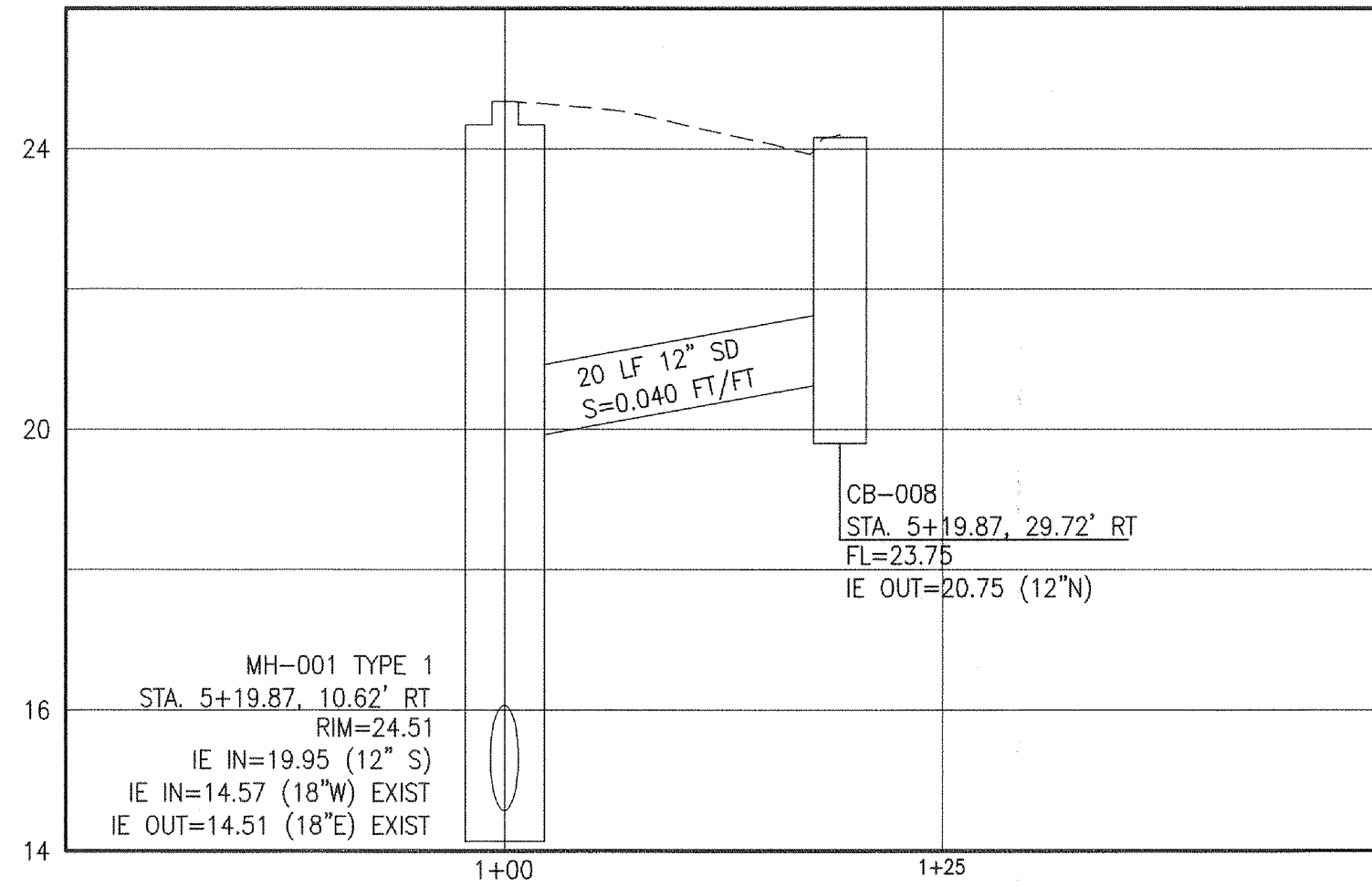
STORM ALIGNMENTS - MAIN & 4TH

SCALE: 1" = 10'



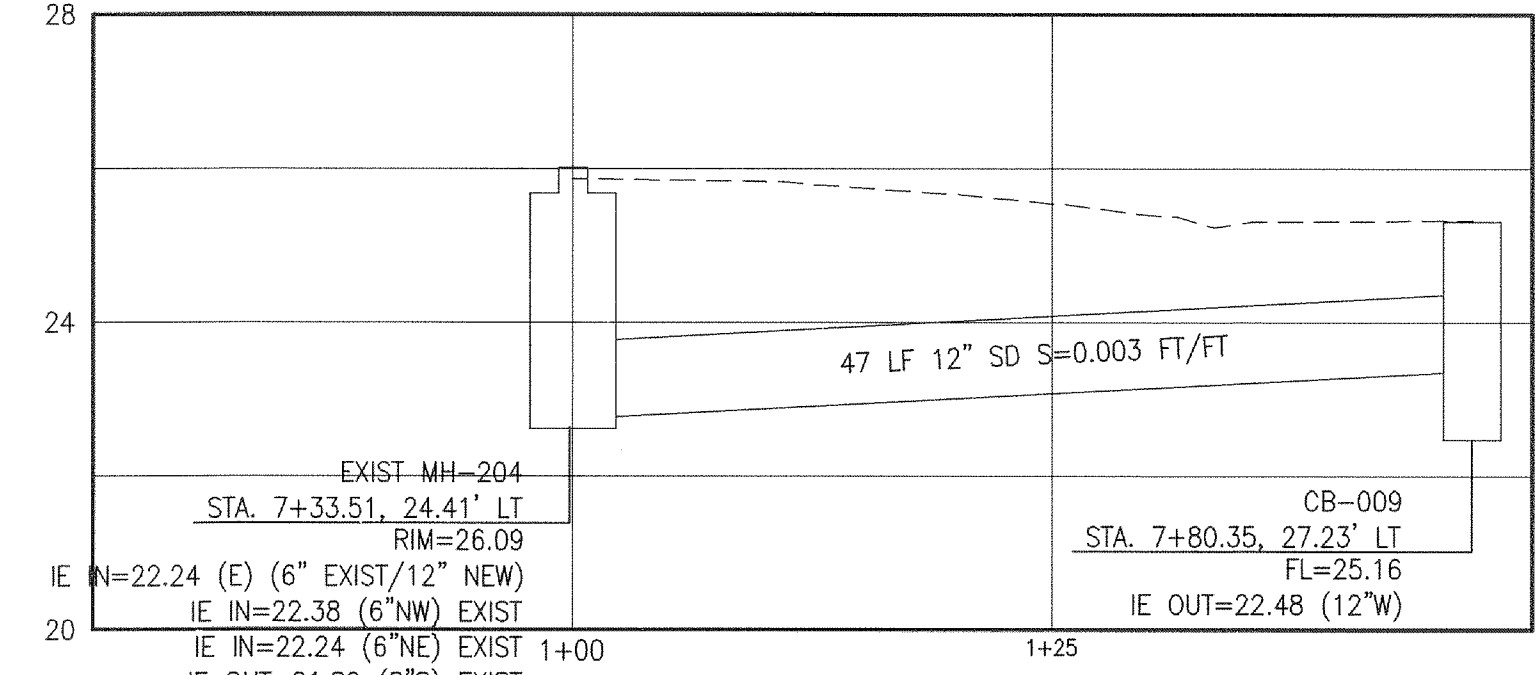
STORM #4

HORIZONTAL: 1" = 10'
VERTICAL: 1" = 2.5'



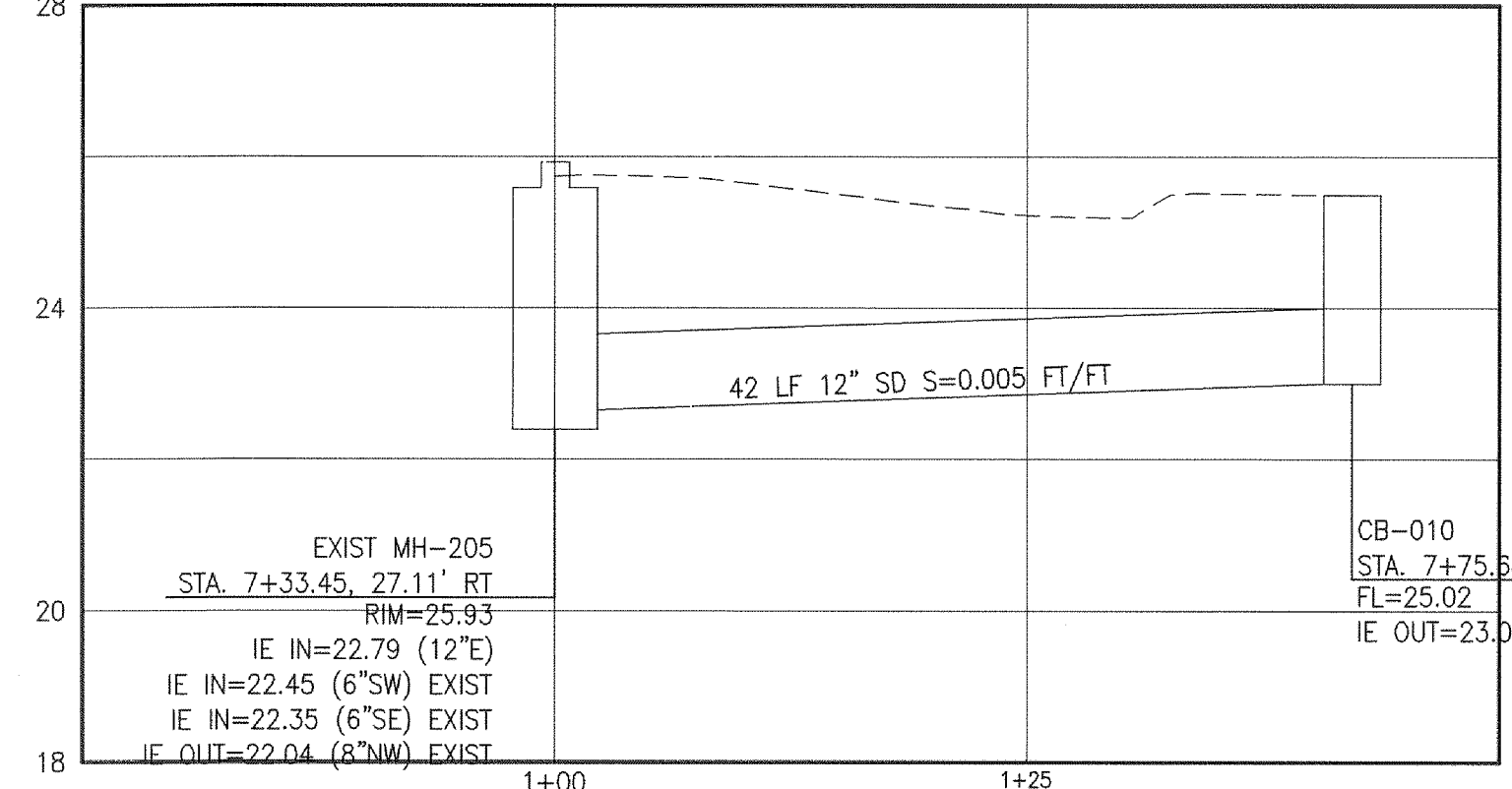
STORM #5

HORIZONTAL: 1" = 10'
VERTICAL: 1" = 2.5'



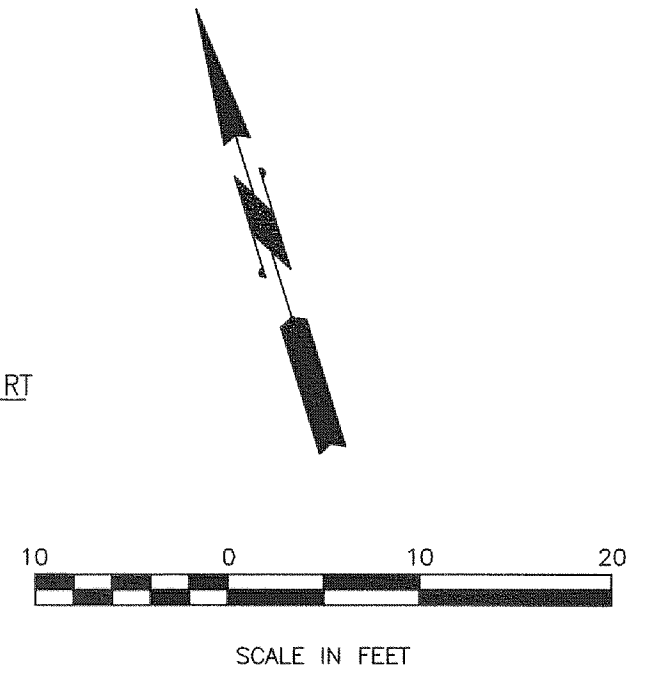
STORM #6

HORIZONTAL: 1" = 10'
VERTICAL: 1" = 2.5'



STORM #7

HORIZONTAL: 1" = 10'
VERTICAL: 1" = 2.5'



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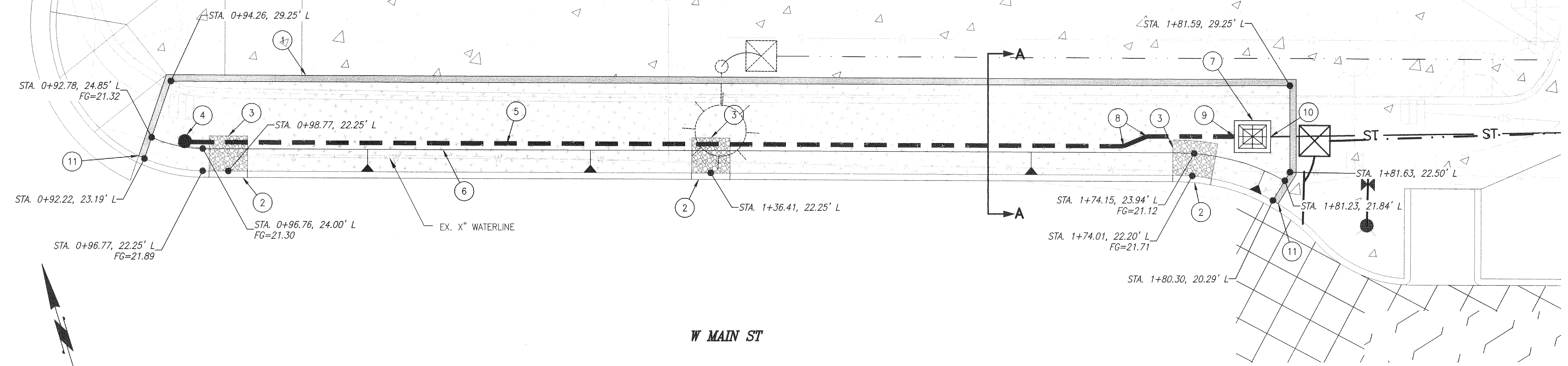
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REVISION	DATE	DESCRIPTION	BY
JOB No.	13564E		
Designed By:	MAK		
Drawn By:	NAR		
Checked By:	KMA		
DATE:	10/30/2015		
SCALE:	AS SHOWN		
DWG NO.:	D06		

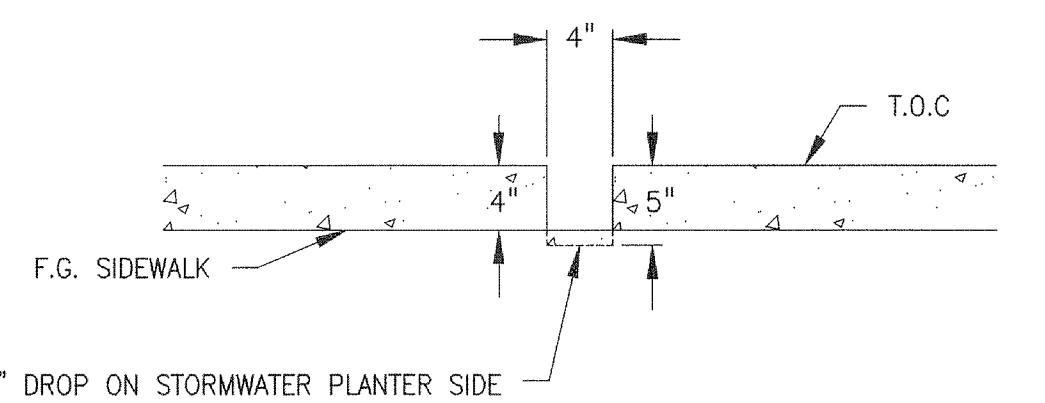
WEST MAIN STREET REVITALIZATION PROJECT	
STORM PLAN AND PROFILE	
W COWLITZ WAY AND W MAIN ST	
CITY OF KELSO	
PUBLIC WORKS DEPARTMENT 203 S. PACIFIC AVE. SUITE 205 KELSO, WA 98626	

SHEET NUMBER	09 of 57
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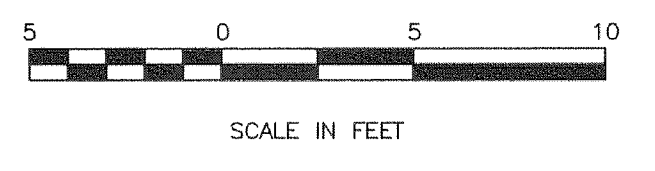
W COWLITZ WY



- STREET CONSTRUCTION NOTES:**
- 1 STORMWATER PLANTER WALL (SEE DETAIL ON SHEET 11)
 - 2 CURB CUT INLET (SEE DETAIL ON SHEET 11)
 - 3 SPLASH PAD (SEE DETAIL ON SHEET 11)
 - 4 CLEAN OUT (SEE DETAIL ON SHEET 11)
 - 5 4" PERFORATED PIPE
 - 6 TOE OF 3:1 SLOPE
 - 7 PRECAST CATCH BASIN WITH BEEHIVE GRATE (SEE DETAIL ON SHEET 11)
 - 8 USE (2) 22.5° BENDS TO ACHIEVE OFFSET
 - 9 4" PERFORATED UNDERDRAIN, IE IN = 18.94
 - 10 12" STORM, IE OUT = 18.94 (SEE SHEET 08 FOR CONTINUATION)
 - 11 STORMWATER PLANTER WALL TRANSITION (SEE DETAIL ON SHEET 11)



SIDEWALK DRAINAGE NOTCH ELEVATION DETAIL



STA = 0+94.26
T.W. ELEV = 22.84
F.G. S/W ELEV = 22.51
F.G. MEDIA ELEV = 21.32
B.O.C. ELEV = 20.67

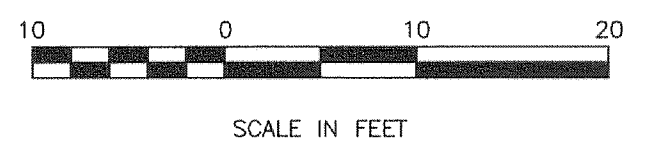
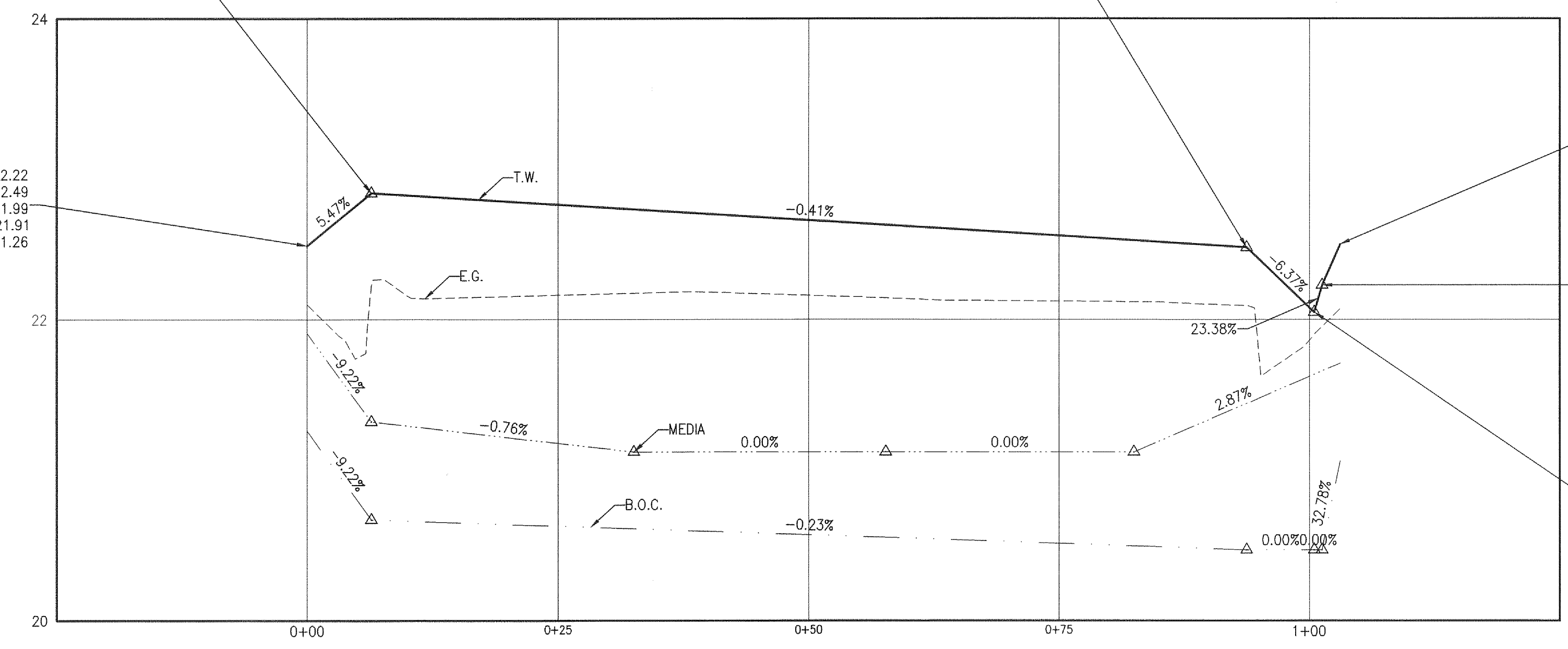
STA = 1+81.59
T.W. ELEV = 22.48
F.G. S/W ELEV = 22.15
F.G. MEDIA ELEV = 21.12
B.O.C. ELEV = 20.47

STA = 0+92.22
T.W. ELEV = 22.49
F.G. GUTTER ELEV = 21.91
F.G. MEDIA ELEV = 21.91
B.O.C. ELEV = 21.26

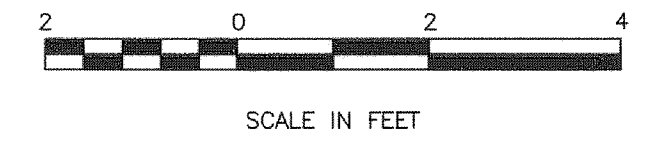
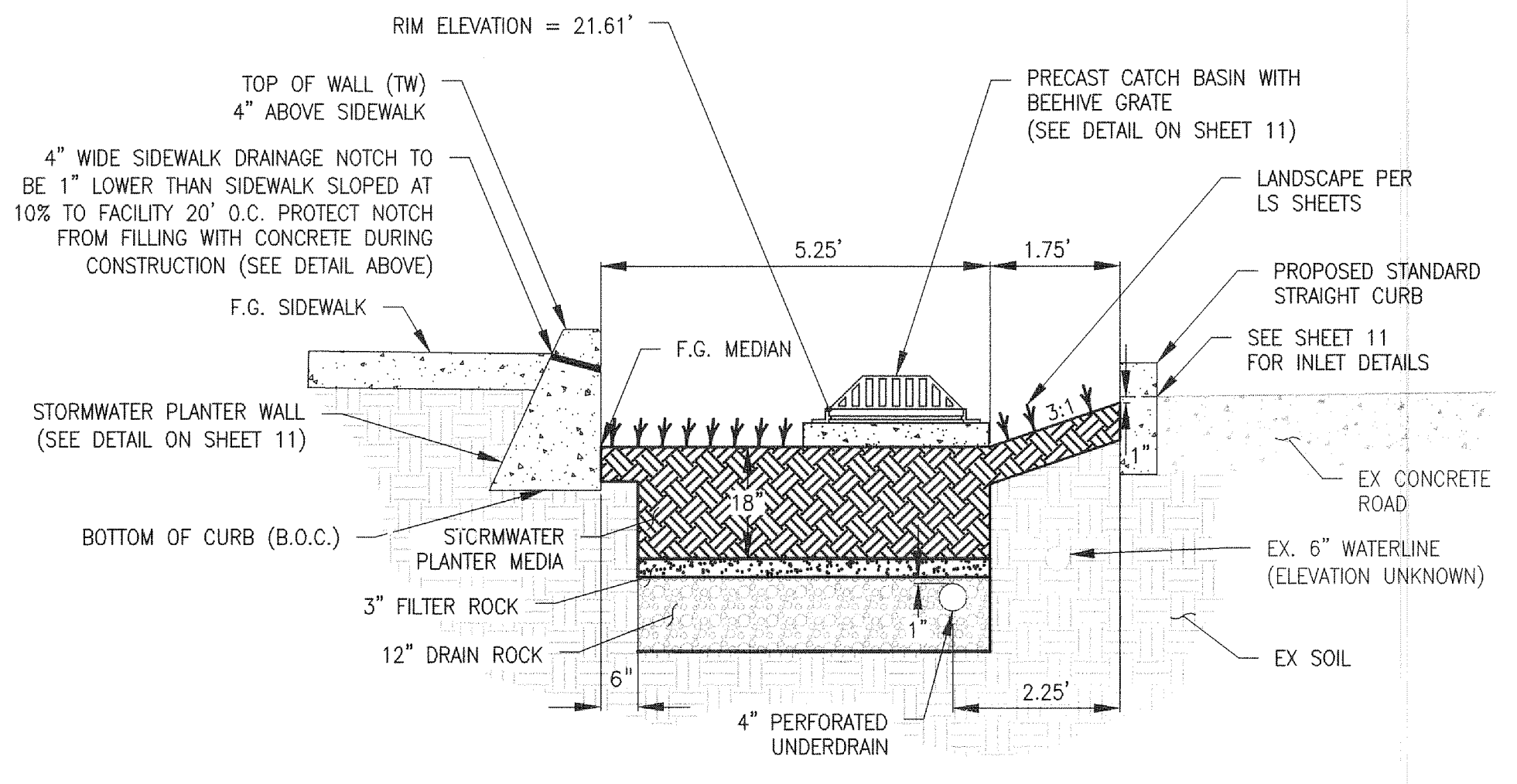
STA = 1+80.30
F.G. GUTTER ELEV = 22.00
F.G. MEDIA ELEV = 21.71
B.O.C. ELEV = 21.06

STA = 1+81.23
T.O.C ELEV = 22.23
F.G. MEDIA ELEV = 21.12
B.O.C. ELEV = 20.47

STA = 1+81.63
T.O.C ELEV = 22.05
F.G. MEDIA ELEV = 21.12
B.O.C. ELEV = 20.47



STORMWATER PLANTER WALL PROFILE



STORMWATER PLANTER SECTION A-A

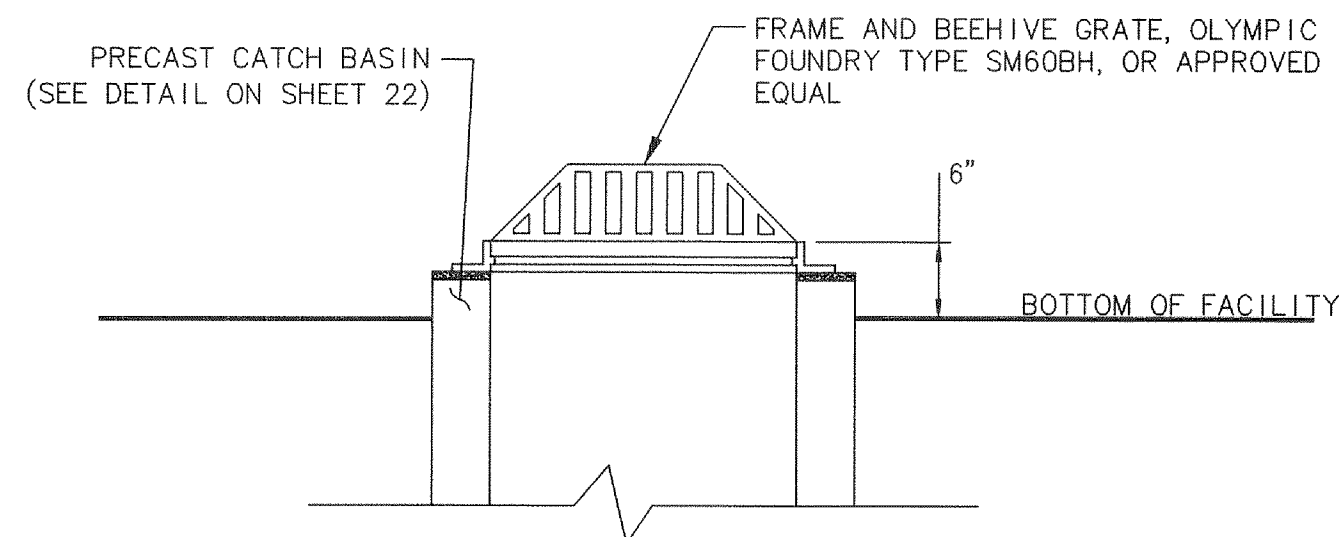
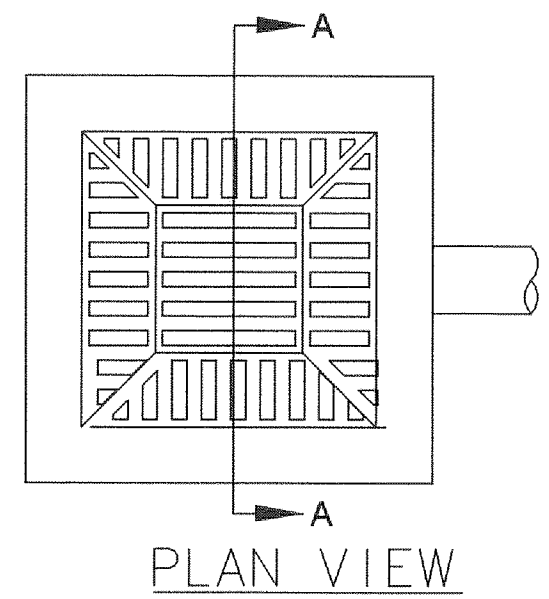
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Professional Engineer
BENJAMIN M. ACKERLYN
STATE OF WASHINGTON
38893
Exp 10-28-16

REVISION	DATE	DESCRIPTION	BY
JOB No.	13564E	WEST MAIN STREET REVITALIZATION PROJECT	
Designed By:			
Drawn By:			
Checked By:	KMA	STORMWATER PLANTER PLAN	
DATE:	10/30/2015		
SCALE:	AS SHOWN	CITY OF KELSO PUBLIC WORKS DEPARTMENT 203 S. PACIFIC AVE. SUITE 205 KELSO, WA 98626	
DWG NO.:	D07		



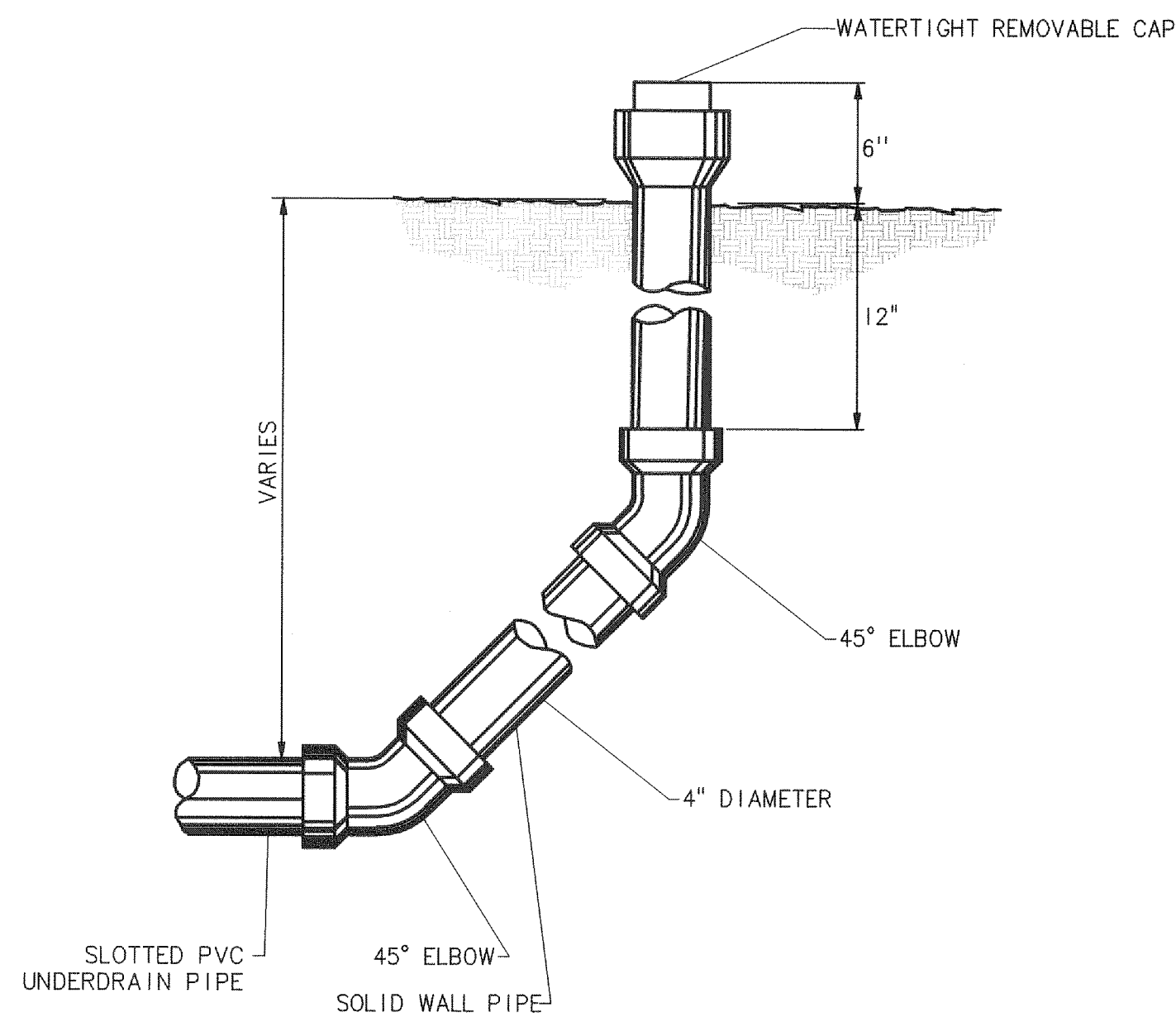
SECTION A-A

NOTES:

1. LATERALS WILL BE CONSTRUCTED TO ENTER THE BASIN PERPENDICULAR TO THE BASIN WALL. THE LATERAL WILL ENTER ONLY AT THE FRONT OR SIDE OF THE BASIN WITH NO LATERALS ALLOWED TO ENTER THE CATCH BASIN AT THE CORNERS. IF NEEDED, A BEND MAY BE USED AS THE FIRST SECTION OF PIPE OUTSIDE THE BASIN WALL. THE MAXIMUM BEND ALLOWED IS 45 DEGREES.
2. ANY PROTRUDING ENDS OF PIPES SHALL BE TRIMMED FLUSH WITH THE INSIDE WALLS AND GROUTED.

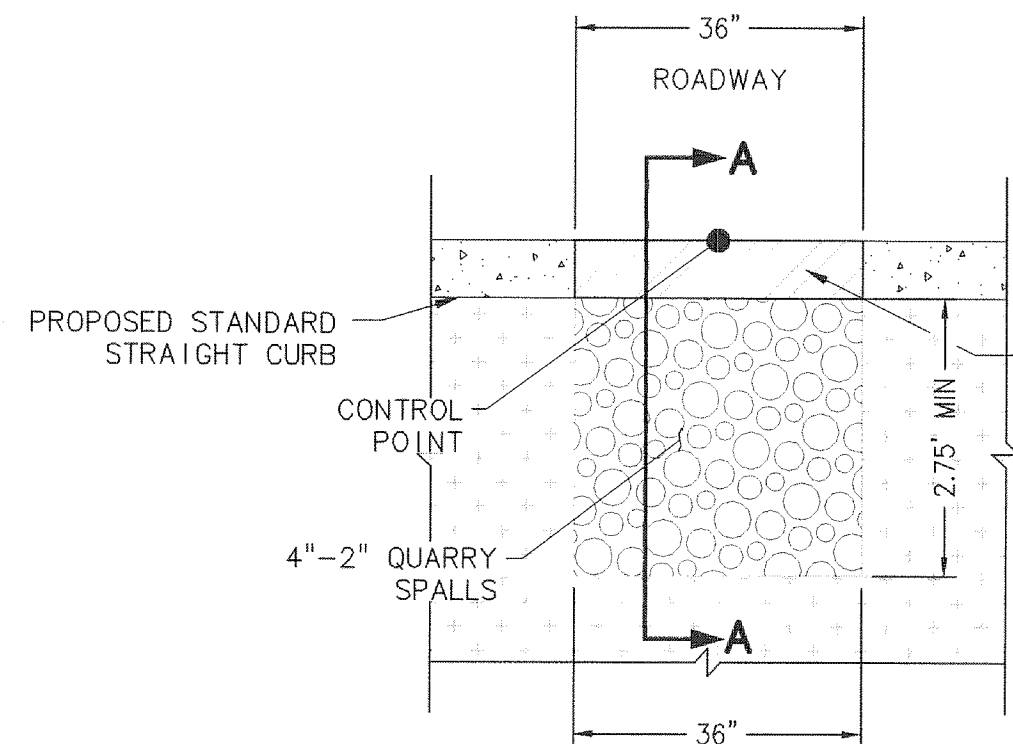
PRECAST CATCH BASIN WITH BEEHIVE GRATE

N.T.S.

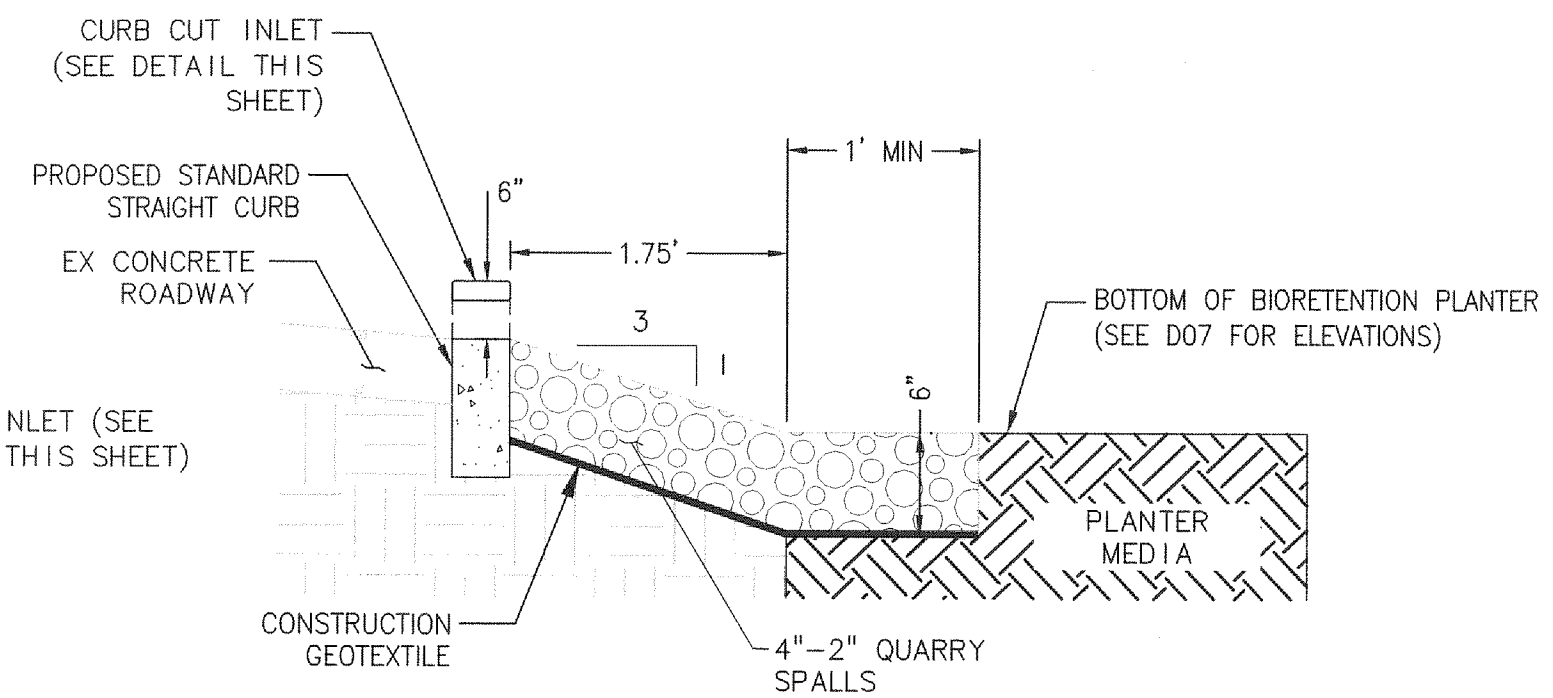


CLEANOUT

N.T.S.



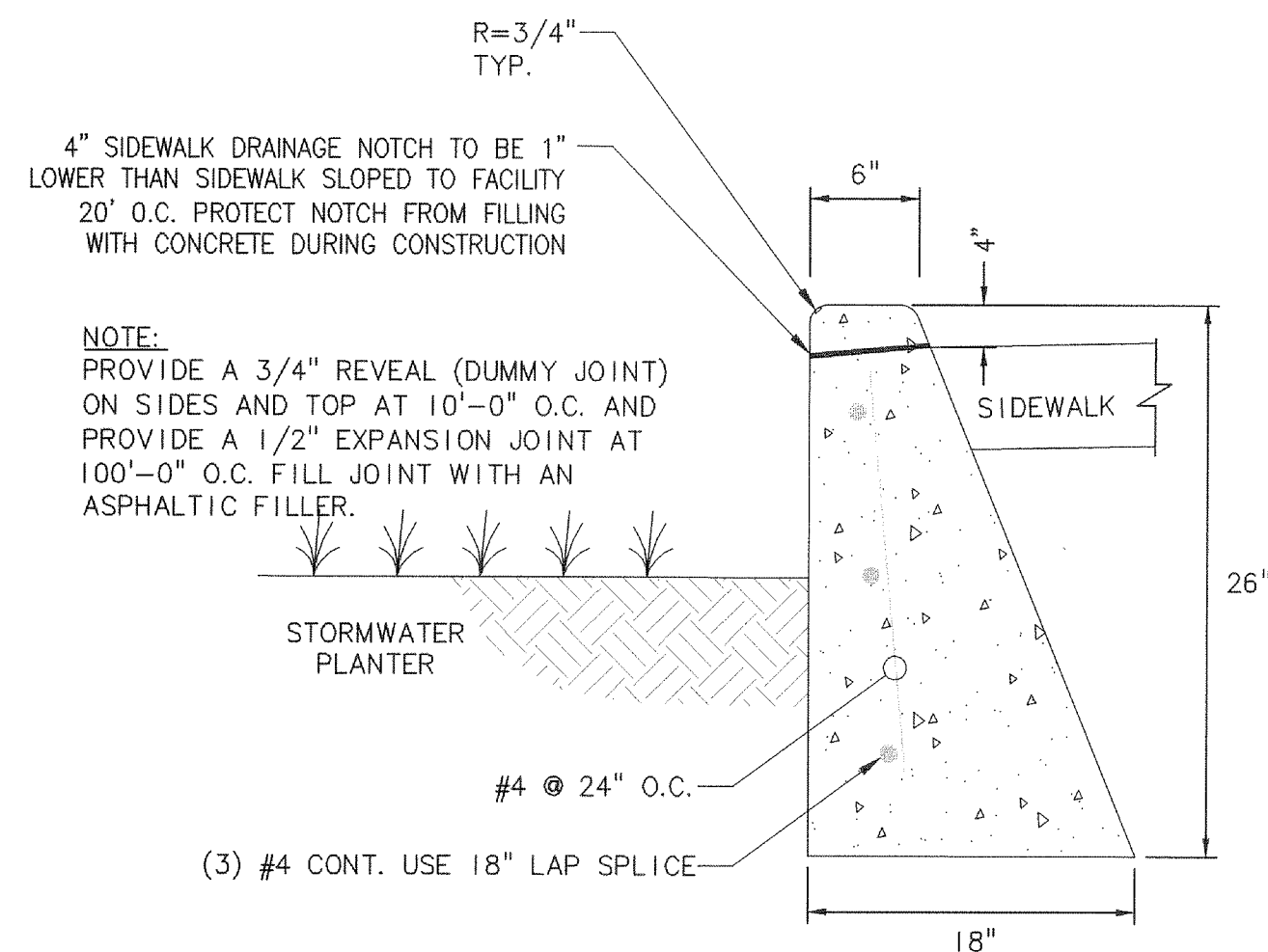
PLAN



SECTION A-A

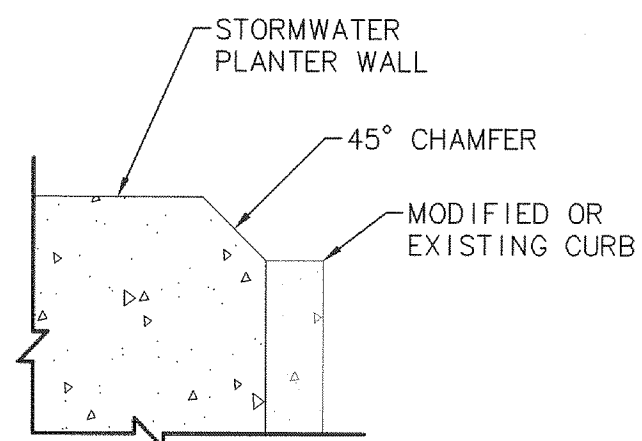
CURB CUT INLET AND SPLASH PAD

N.T.S.



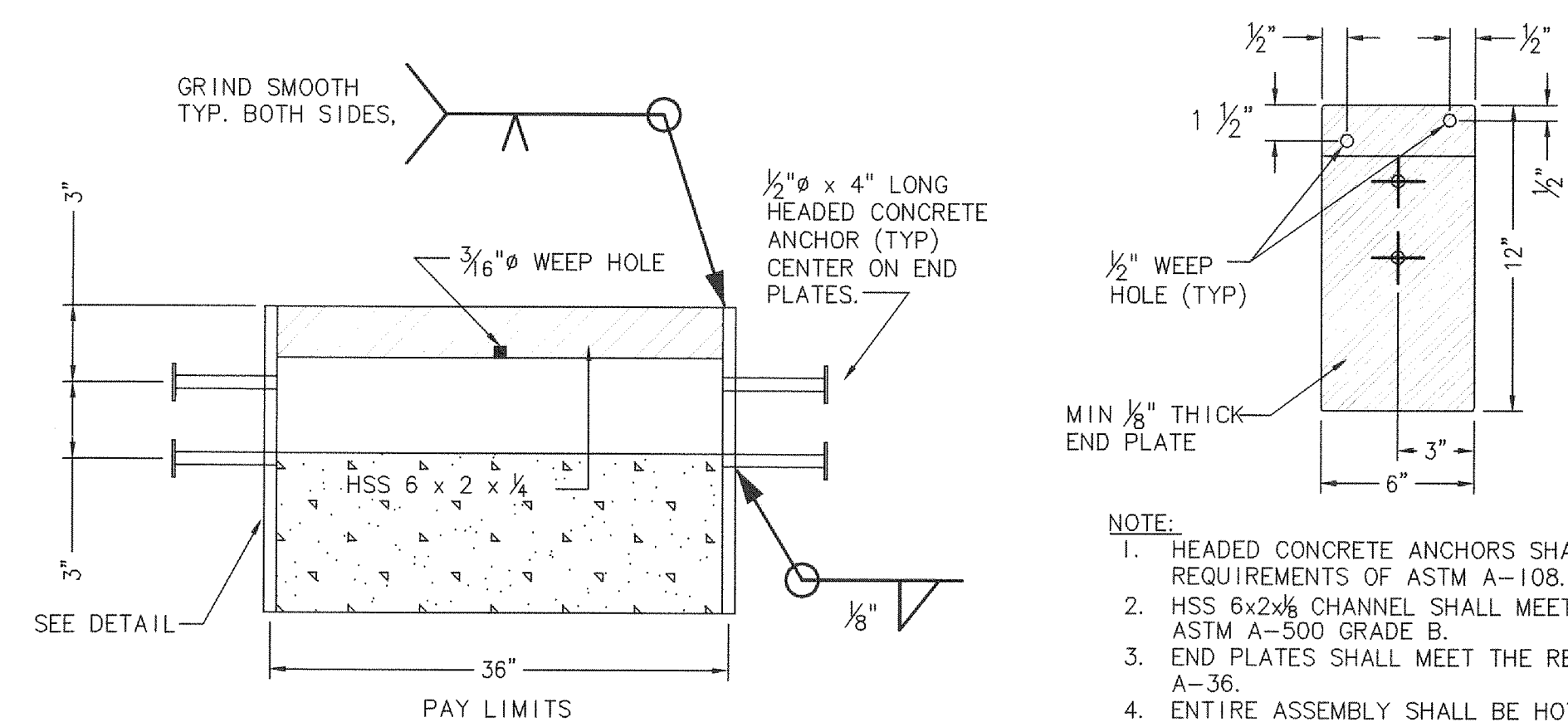
STORMWATER PLANTER WALL

N.T.S.



STORMWATER PLANTER WALL TRANSITION DETAIL

N.T.S.



CURB CUT INLET

N.T.S.

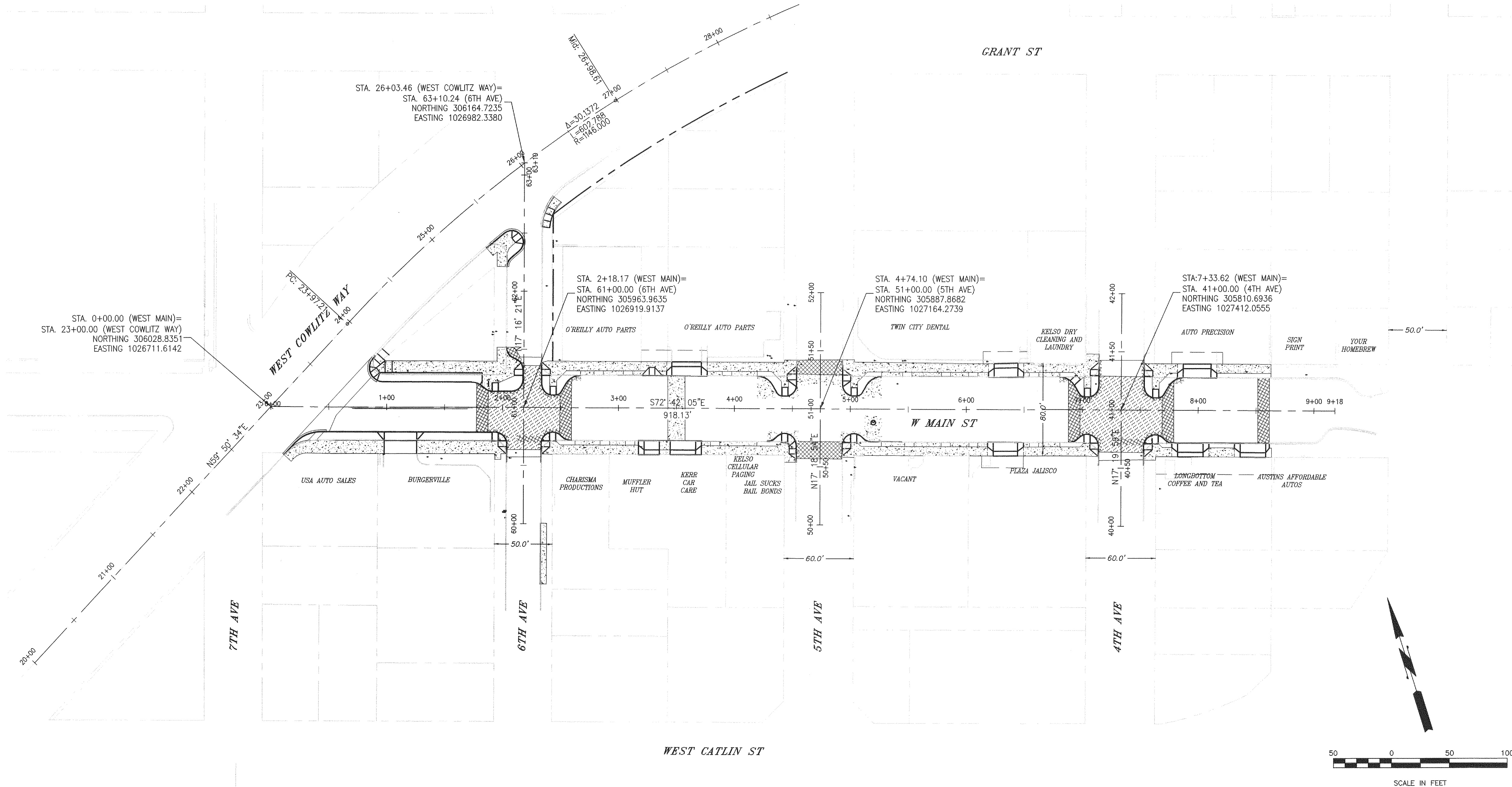
- NOTE:
1. HEADED CONCRETE ANCHORS SHALL MEET THE REQUIREMENTS OF ASTM A-108.
 2. HSS 6x2x1/4 CHANNEL SHALL MEET THE REQUIREMENTS OF ASTM A-500 GRADE B.
 3. END PLATES SHALL MEET THE REQUIREMENTS OF ASTM A-36.
 4. ENTIRE ASSEMBLY SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A-123.
 5. SINGLE BEVEL GROOVE WELD.

Mar 18, 2016 - 3:13pm L:\Project\13500\13564E\DWG\C13564E_WQ.dwg

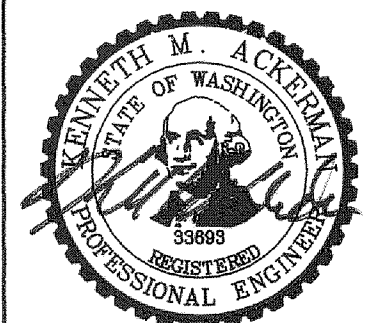
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		WEST MAIN STREET REVITALIZATION PROJECT STORMWATER DETAILS	
REVISION JOB No. 13564E Designed By: Drawn By: Checked By: KMA DATE: 10/30/2015 SCALE: AS SHOWN DWG NO.: D08	DATE 10/30/2015	DESCRIPTION WEST MAIN STREET REVITALIZATION PROJECT STORMWATER DETAILS	BY
		CITY OF KELSO PUBLIC WORKS DEPARTMENT 203 S. PACIFIC AVE. SUITE 206 KELSO, WA 98626	SHEET NUMBER 11 of 57

Mar 17, 2016 - 2:00pm
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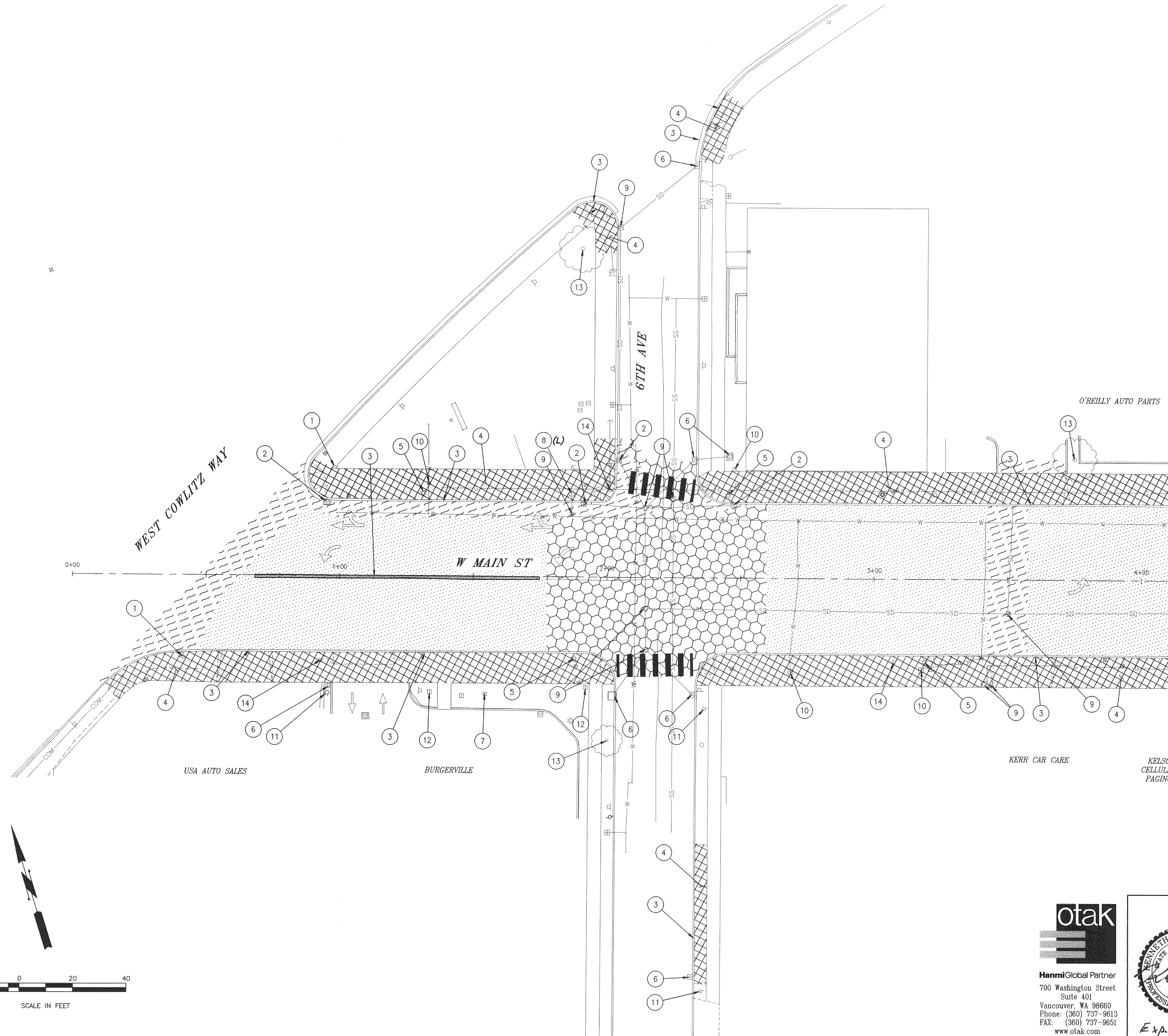
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Exp 10-25-10.

REVISION	DATE	DESCRIPTION	BY
JOB No.	13564E	WEST MAIN STREET REVITALIZATION PROJECT ALIGNMENT PLAN	
Designed By:	MAK		
Drawn By:	NAR		
Checked By:	KMA		
DATE:	10/30/2015	CITY OF KELSO PUBLIC WORKS DEPARTMENT 203 S. PACIFIC AVE. SUITE 205 KELSO, WA 98626	
SCALE:	AS SHOWN		
DWG NO.:	AL01		
			SHEET NUMBER 12 of 57

Mar 17, 2016 - 2:03pm
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MATCHLINE STA. 4+15 SEE SHEET SP02

SITE PREPARATION NOTES

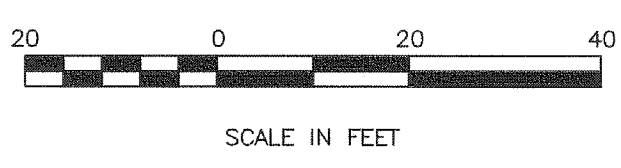
- 1 PROTECT EXISTING PEDESTRIAN PUSH-BUTTON POLE
- 2 REMOVE EXISTING DRAINAGE STRUCTURE AND PLUG EXISTING PIPE
- 3 REMOVE EXISTING CURB
- 4 REMOVE EXISTING SIDEWALK OR CONC PAD
- 5 EXISTING LUMINAIRE. SEE ILLUMINATION PLANS.
- 6 PROTECT EXISTING DRAINAGE STRUCTURE
- 7 PROTECT EXISTING UTILITY (GENERAL/UNKNOWN)
- 8 REMOVE (R), RELOCATE (L), OR PROTECT (P) EXISTING FIRE HYDRANT (FOR RELOCATION LOCATIONS SEE PLAN AND PROFILE SHEETS)
- 9 ADJUST EXISTING UTILITY TO FINISH GRADE
- 10 REPLACE EXISTING WATER METER BOX
- 11 PROTECT EXISTING UTILITY/SIGNAL POLE
- 12 PROTECT EXISTING WATER METER/VALVE
- 13 PROTECT EXISTING TREE
- 14 RELOCATE EXISTING UTILITY POLE (BY OTHERS)

LEGEND

- EXTG. ASPHALT REMOVAL (~2")
- EXTG. ASPHALT REMOVAL (~2") AND PCC GRIND (3")
- EXTG. FULL DEPTH ASPHALT AND PCC REMOVAL (~11")
- EXTG. SIDEWALK REMOVAL

GENERAL NOTES:

- 1. SEE SHEETS PP02-PP03 FOR EXISTING CATCH BASIN AND MANHOLE DATA.
- 2. FOR ILLUMINATION PROTECTION/ REMOVAL / RELOCATIONS AND NEW LUMINAIRES, SEE ILLUMINATION PLANS.
- 3. FOR SIGN REMOVAL / RELOCATIONS, SEE SIGNING PLANS
- 4. FOR SIGNAL REMOVAL, RELOCATIONS, AND/OR INTERCONNECT DETAILS, SEE SIGNAL MODIFICATION SHEETS.
- 5. EXISTING PAVEMENT MARKING SHALL BE REMOVED WHERE IT CONFLICTS WITH PROPOSED CHANNELIZATION. SEE SIGNING AND STRIPING PLANS FOR FINAL CONFIGURATION.
- 6. ALL TREES SHALL BE PROTECTED, UNLESS NOTED OTHERWISE.
- 7. CONTRACTOR SHALL COORDINATE WITH CITY OF KELSO TO NOTIFY AND FACILITATE PROPERTY OWNERS WITHIN THE PROJECT LIMITS TO ACCOMMODATE WORK OUTSIDE OF RIGHT-OF-WAY AND TO MAINTAIN ACCESS.

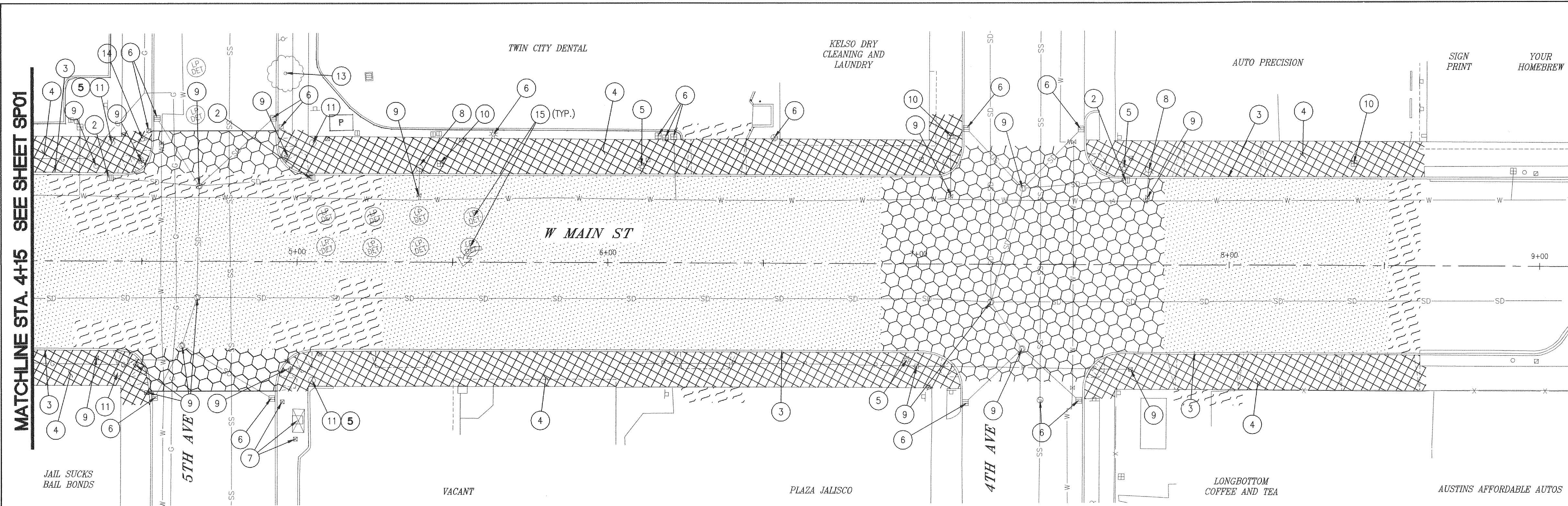


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Exp. 10-26-16

REVISION	DATE	DESCRIPTION	BY
JOB No.	13564E	WEST MAIN STREET REVITALIZATION PROJECT SITE PREPARATION PLAN STA 0+00 TO STA 4+15	
Designed By:	MAK		
Drawn By:	NAR		
Checked By:	KMA	CITY OF KELSO PUBLIC WORKS DEPARTMENT 203 S. PACIFIC AVE., SUITE 205 KELSO, WA 98626	
DATE:	10/30/2015		
SCALE:	AS SHOWN		
DWG NO.:	SP01	SHEET NUMBER 13 of 57	

Mar 17, 2016 - 2:03pm
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SITE PREPARATION NOTES

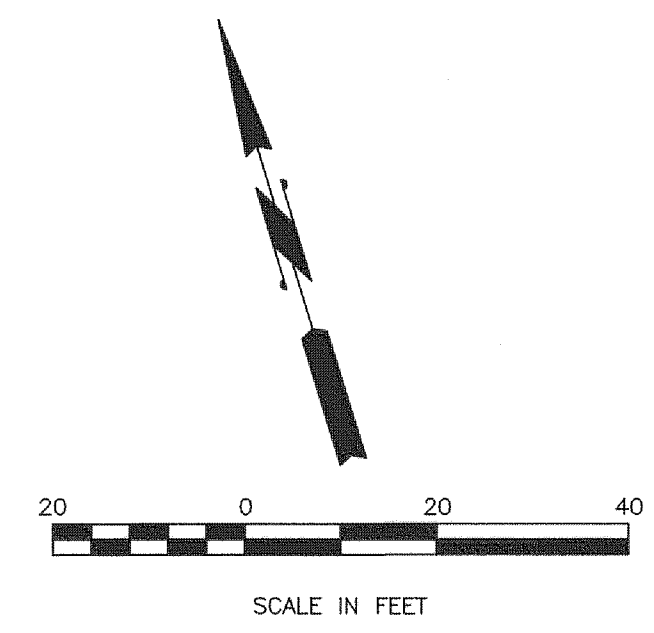
- ① PROTECT EXISTING PEDESTRIAN PUSH-BUTTON POLE
- ② REMOVE EXISTING DRAINAGE STRUCTURE AND PLUG EXISTING PIPE
- ③ REMOVE EXISTING CURB
- ④ REMOVE EXISTING SIDEWALK OR CONC PAD
- ⑤ EXISTING LUMINAIRE. SEE ILLUMINATION PLANS.
- ⑥ PROTECT EXISTING DRAINAGE STRUCTURE
- ⑦ PROTECT EXISTING UTILITY (GENERAL/UNKNOWN)
- ⑧ RESET HYDRANT TO FINISH GRADE
- ⑨ ADJUST EXISTING UTILITY TO FINISH GRADE
- ⑩ REPLACE EXISTING WATER METER BOX
- ⑪ PROTECT EXISTING UTILITY/SIGNAL POLE
- ⑫ PROTECT EXISTING WATER METER/VALVE
- ⑬ PROTECT EXISTING TREE
- ⑭ RELOCATE EXISTING UTILITY POLE (BY OTHERS)
- ⑮ EXISTING LOOP DETECTORS. SEE SIGNAL MODIFICATION PLANS.

LEGEND

- EXTG. ASPHALT REMOVAL (~2")
- EXTG. ASPHALT REMOVAL (~2") AND PCC GRIND (1/4")
- EXTG. FULL DEPTH ASPHALT AND PCC REMOVAL (~2FT)
- EXTG. SIDEWALK REMOVAL

GENERAL NOTES:

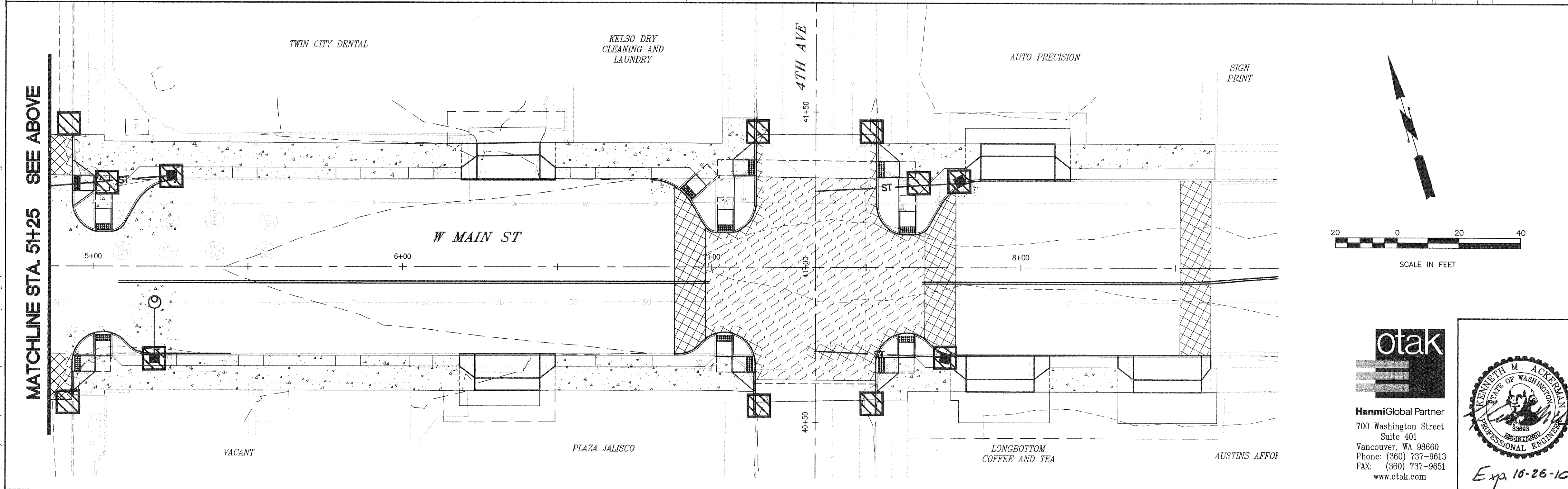
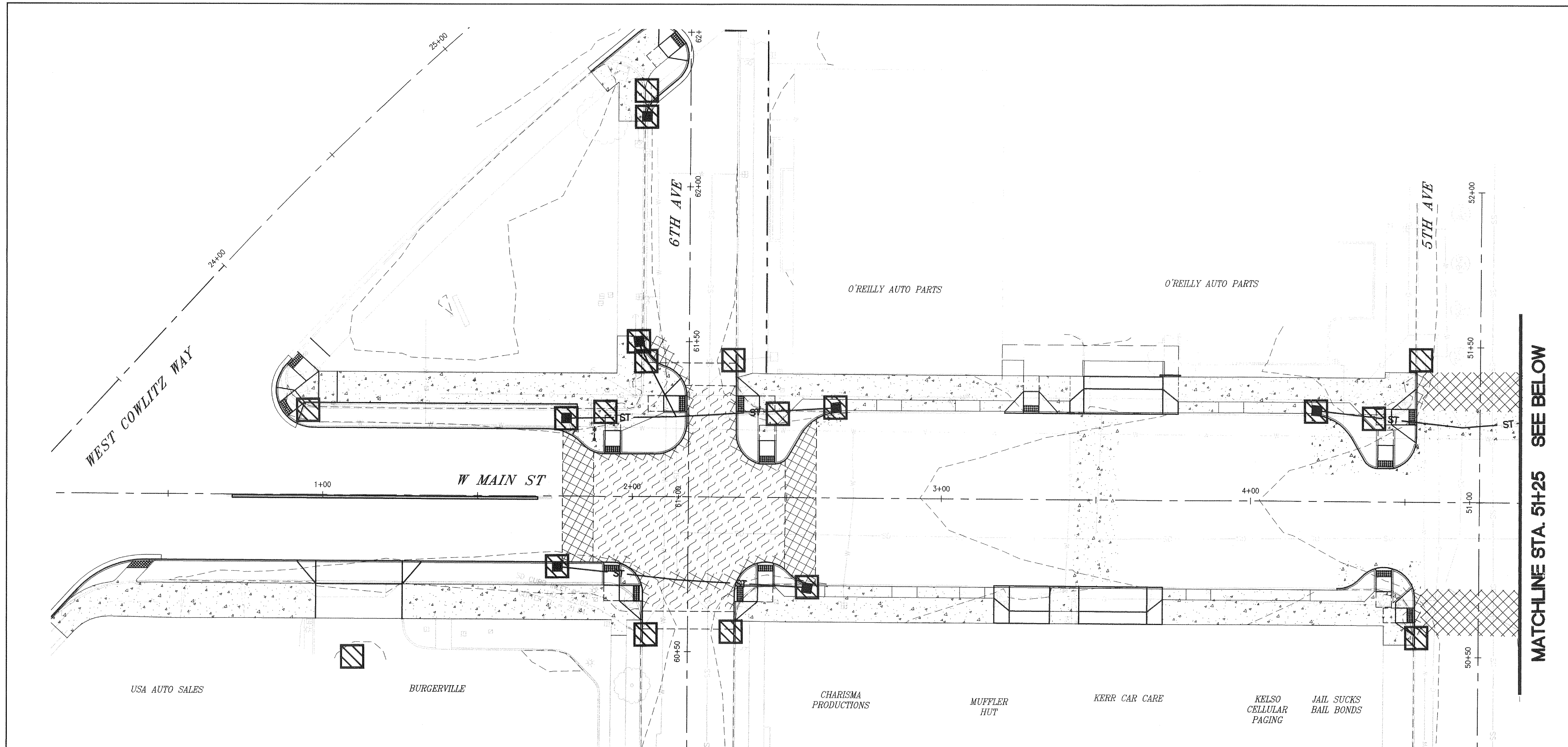
- 1. SEE SHEETS PP02-PP03 FOR EXISTING CATCH BASIN AND MANHOLE DATA.
- 2. FOR ILLUMINATION PROTECTION / REMOVAL / RELOCATIONS AND NEW LUMINAIRES, SEE ILLUMINATION PLANS.
- 3. FOR SIGN REMOVAL / RELOCATIONS, SEE SIGNING PLANS
- 4. FOR SIGNAL REMOVAL, RELOCATIONS, AND/OR INTERCONNECT DETAILS, SEE SIGNAL MODIFICATION SHEETS.
- 5. EXISTING PAVEMENT MARKING SHALL BE REMOVED WHERE IT CONFLICTS WITH PROPOSED CHANNELIZATION. SEE SIGNING AND STRIPING PLANS FOR FINAL CONFIGURATION.
- 6. ALL TREES SHALL BE PROTECTED, UNLESS NOTED OTHERWISE.
- 7. CONTRACTOR SHALL COORDINATE WITH CITY OF KELSO TO NOTIFY AND FACILITATE PROPERTY OWNERS WITHIN THE PROJECT LIMITS TO ACCOMMODATE WORK OUTSIDE OF RIGHT-OF-WAY AND TO MAINTAIN ACCESS.



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REVISION	DATE	DESCRIPTION	BY
JOB No.	13564E	WEST MAIN STREET REVITALIZATION PROJECT SITE PREPARATION PLAN STA 4+15 TO STA 9+00	
Designed By:	MAK		
Drawn By:	NAR		
Checked By:	KMA		
DATE:	10/30/2015	CITY OF KELSO PUBLIC WORKS DEPARTMENT 203 S. PACIFIC AVE. SUITE 205 KELSO, WA 98626	
SCALE:	AS SHOWN		
DWG NO.:	SP02		
			SHEET NUMBER 14 of 57

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LEGEND

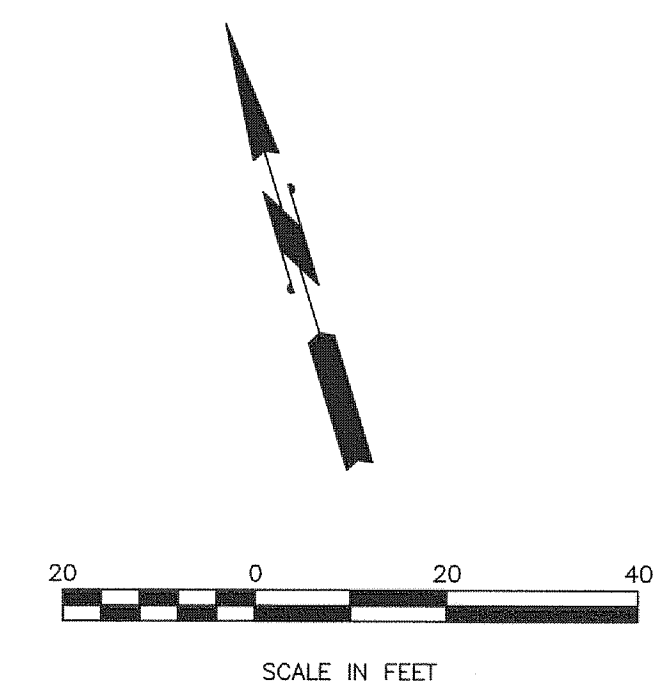
 **INLET PROTECTION**

GENERAL NOTES:

1. CONTRACTOR TO PROVIDE EROSION CONTROL ON ALL DOWNSTREAM INLETS AND PARKING LOT INLETS AS NEEDED OR DIRECTED BY ENGINEER.

MATCHLINE STA. 5+25 SEE BELOW

MATCHLINE STA. 5+25 SEE ABOVE



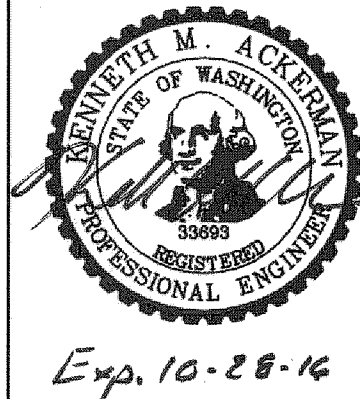
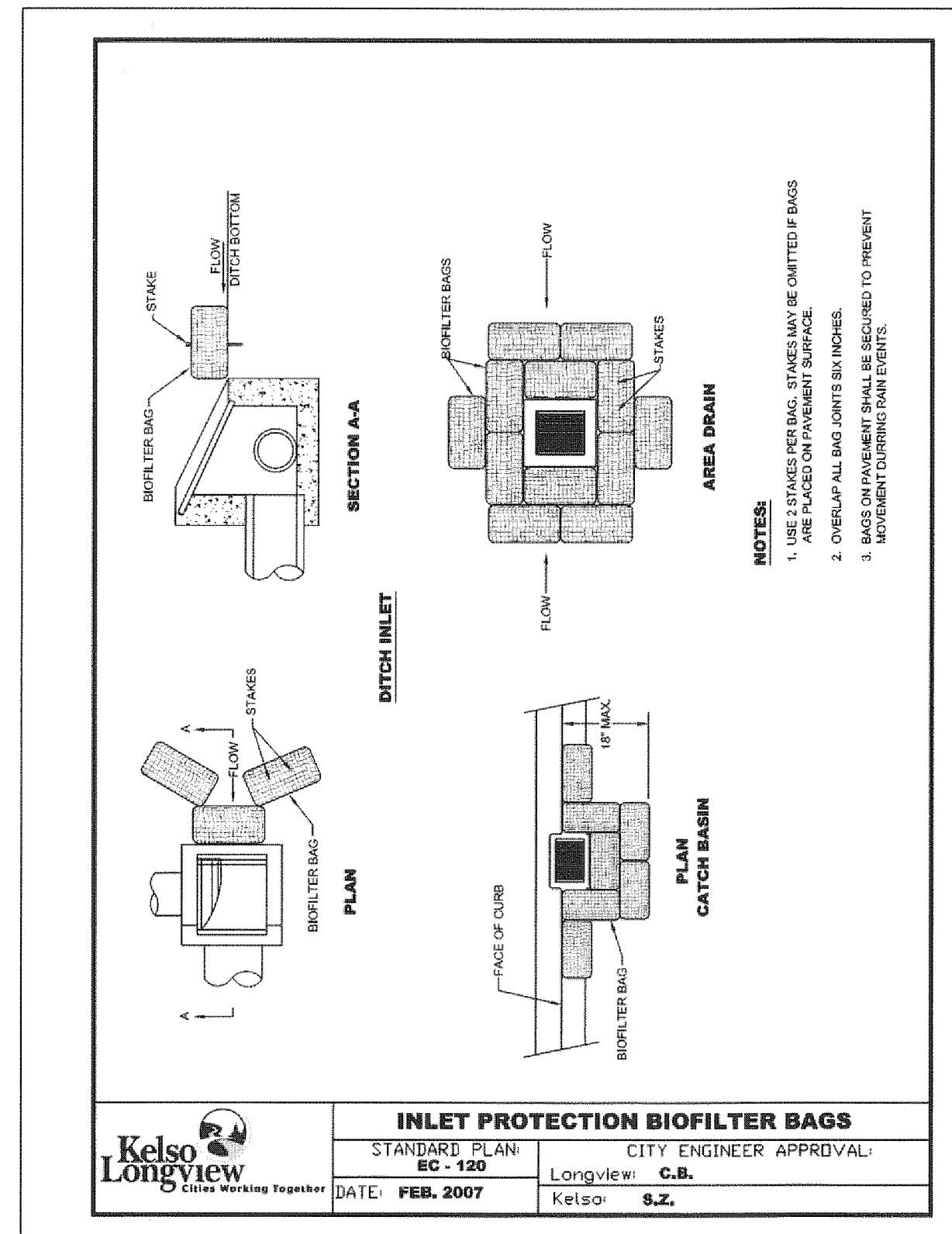
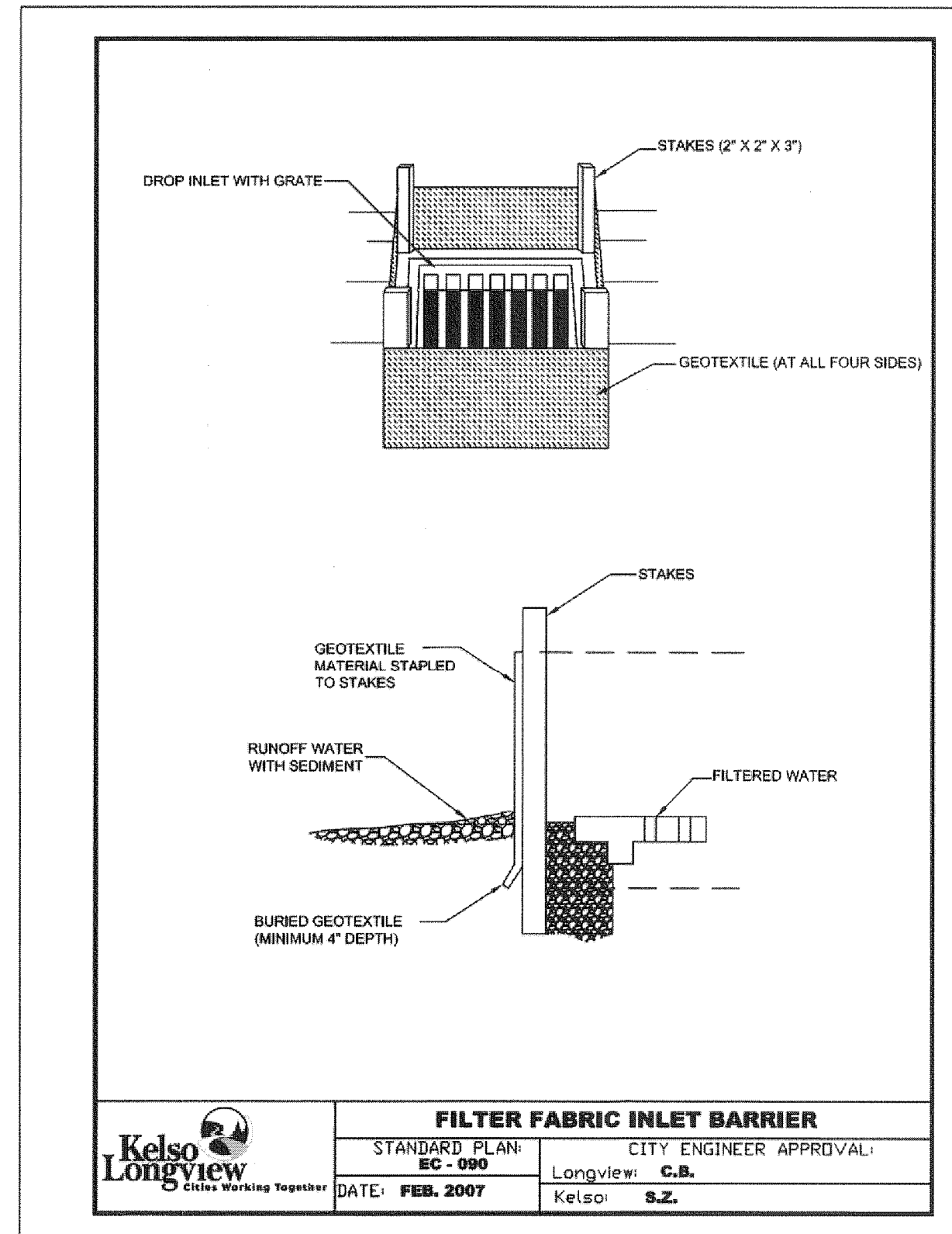
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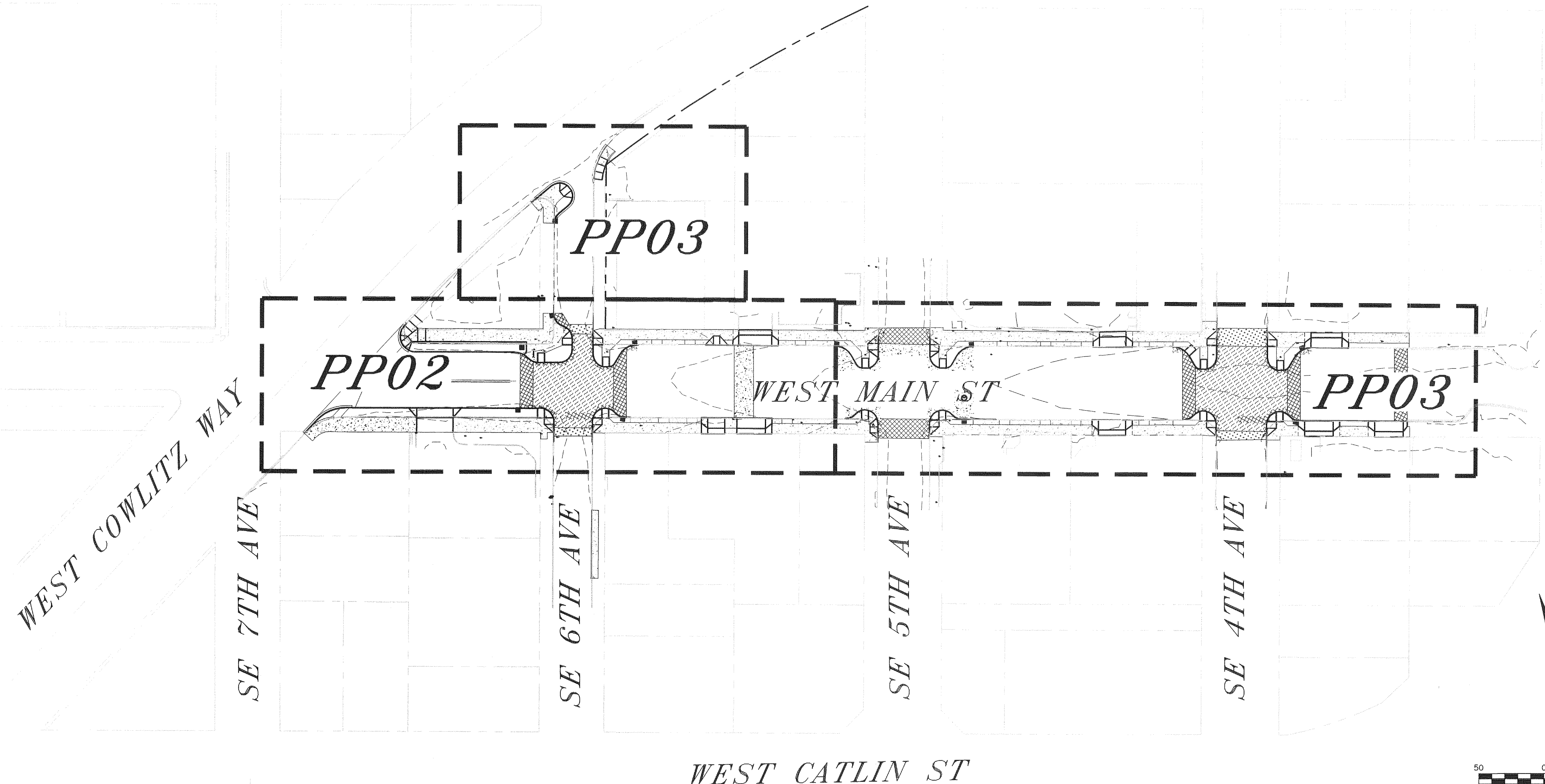
REVISION	DATE	DESCRIPTION	BY
JOB No.	13564E		
Designed By:	MAK		
Drawn By:	NAR		
Checked By:	KMA		
DATE:	10/30/2015		
SCALE:	AS SHOWN		
DWG NO.:	EC01		

**WEST MAIN STREET
 REVITALIZATION PROJECT**
TESC PLAN
STA 0+00 TO STA 9+00

 CITY OF KELSO PUBLIC WORKS DEPARTMENT 203 S. PACIFIC AVE. SUITE 205 KELSO, WA 98626	SHEET NUMBER 15 of 57
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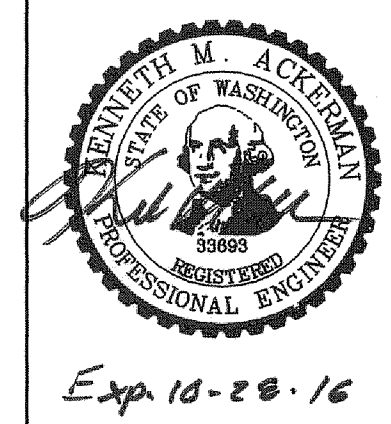



REVISION	DATE	DESCRIPTION	BY
JOB No.	13564E	WEST MAIN STREET REVITALIZATION PROJECT <i>TESC DETAILS</i>	
Designed By:	MAK		
Drawn By:	NAR		
Checked By:	KMA		
DATE:	10/30/2015	CITY OF KELSO PUBLIC WORKS DEPARTMENT 203 S. PACIFIC AVE. SUITE 205 KELSO, WA 98626	SHEET NUMBER
SCALE:	AS SHOWN		16 of 57
DWG NO.:	EC02		



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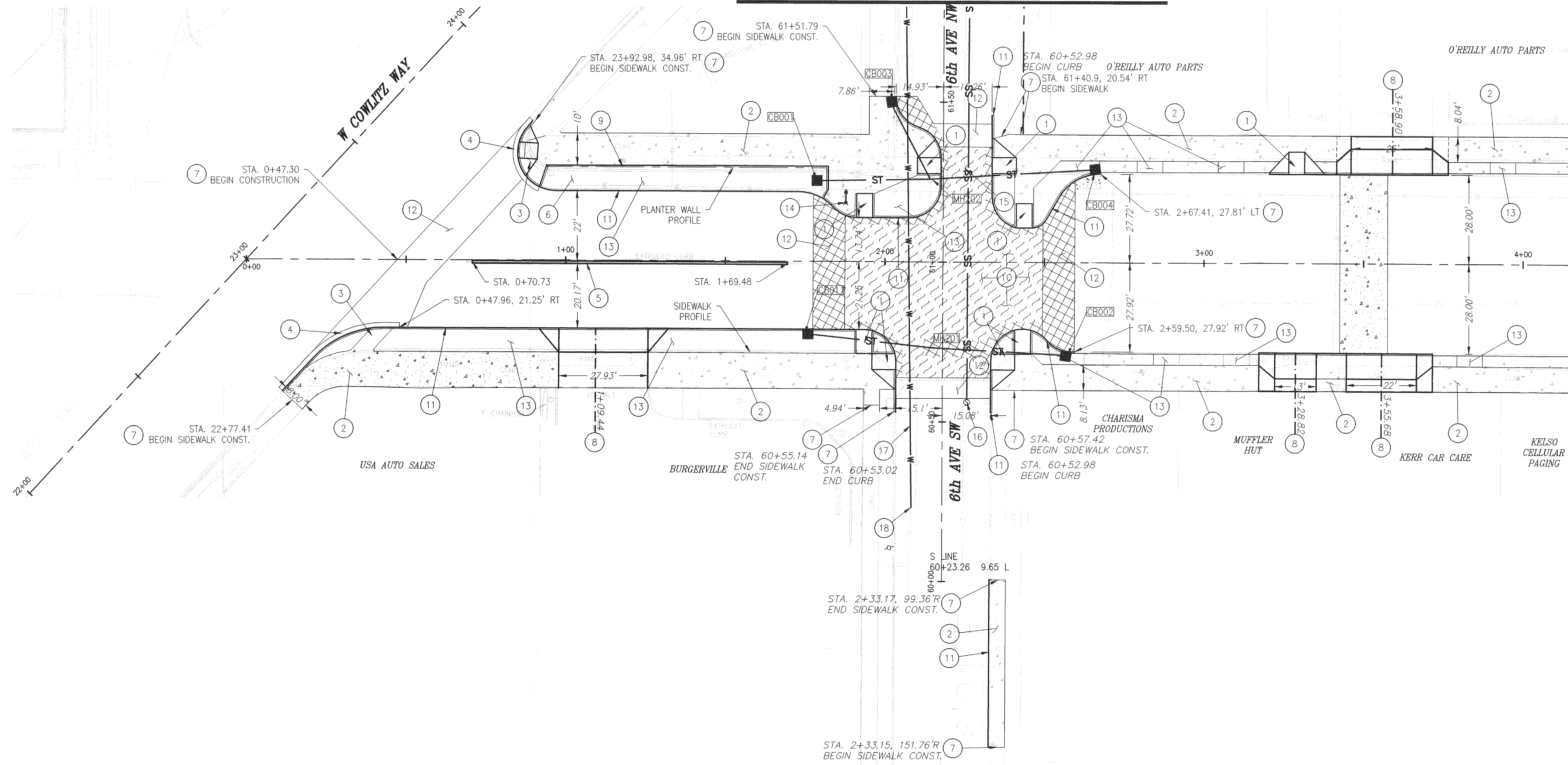
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REVISION	DATE	DESCRIPTION	BY
JOB No.	13564E	WEST MAIN STREET REVITALIZATION PROJECT PLAN AND PROFILE INDEX MAP	
Designed By:	MAK		
Drawn By:	NAR		
Checked By:	KMA		
DATE:	10/30/2015	 CITY OF KELSO PUBLIC WORKS DEPARTMENT 203 S. PACIFIC AVE. SUITE 205 KELSO, WA 98626	
SCALE:	AS SHOWN		
DWG NO.:	PP01		
			SHEET NUMBER 17 of 57

SEC. 27, T8N, R2W, W.M.

MATCHLINE STA. 61+50 SEE SHEET PP03



STREET CONSTRUCTION NOTES:

- 1 SIDEWALK AND CURB RAMP DESIGN A. SEE DETAIL ST-140.
- 2 SIDEWALK. SEE DETAIL ST-140 & ST-150 SHEET 07.
- 3 SIDEWALK AND CURB RAM. SEE WSDOT DETAIL F-40.12-02 TO F-40.16-02.
- 4 CURB AND GUTTER TYPE A. SEE DETAIL ST-110 SHEET 05.
- 5 PRECAST DUAL FACED SLOPED MOUNTABLE CURB. SEE DETAIL F-10.64-03 SHEET 06.
- 6 STORMWATER PLANTER. SEE SHEETS 10-11.
- 7 SAWCUT EXISTING HMA, CURB, AND/OR SIDEWALK AND MATCH EXISTING
- 8 CONCRETE DRIVEWAY. SEE DETAIL ON CR SHEETS, REFER TO SPEC SECTION 1-08.0(2) FOR ADDITIONAL CLOSURE/RESTRICTION CONDITIONS.
- 9 STORMWATER PLANTER WALL. SEE STORMWATER DETAIL SHEETS.
- 10 HMA RAISED INTERSECTION. SEE PAVING SHEETS.
- 11 STANDARD STRAIGHT CURB. SEE DETAIL ST-090 SHEET 05.
- 12 ASPHALT PAVING TRANSITION SECTION. SEE PAVING PLANS.
- 13 PLANTING AREA. SEE LANDSCAPE PLANS.
- 14 HYDRANT PER KELSO STD. PLAN W-150.
- 15 ABANDON EXIST SANITARY MANHOLE.
- 16 STA 60+56.15, 7.68' R
INSTALL NEW 48" SANITARY MANHOLE OVER EXISTING 8" SANITARY LINE.
SEE DETAIL SS020 ON SHT. 05.
- 17 CONSTRUCT NEW 6" D.I.P. WATERLINE.
- 18 STA. 60+23.26, 9.65' L
CONNECT TO EXISTING 6" WATER MAIN.

MATCHLINE STA. 4+15 SEE SHEET PP04

NEW STORM STRUCTURE INFORMATION

CB-001 PRECAST CATCH BASIN WITH BEEHIVE GRATE STA 1+79	CB-001 I.E.OUT=18.94 35 LF 10 IN. SD S=0.5%
CB-002 PRECAST CATCH BASIN CURB INLET STA 2+57	CB-002 I.E.OUT=19.13 43 LF 10 IN. SD S=0.5%
CB-003 PRECAST CATCH BASIN CURB INLET STA 2+01	CB-003 I.E.OUT=19.43 28 LF 10 IN. SD S=0.5%
CB-004 PRECAST CATCH BASIN CURB INLET STA 2+66	CB-004 I.E.OUT=19.45 52 LF 10 IN. SD S=0.5%
CB-011 PRECAST CATCH BASIN CURB INLET STA 1+76	CB-011 I.E.OUT=18.90 39 LF 10 IN. SD S=0.5%

EXISTING STORM STRUCTURE INFORMATION

MANHOLES

MH201	SD MH STA 2+15, 27' RT RIM 22.40
MH202	SD MH STA. 2+14, 26' LT RIM 22.53

GENERAL NOTES:

1. PRECAST CATCH BASIN PER CITY OF KELSO STANDARD PLANS SD-010, VANED GRATES DETAIL, AND RECTANGULAR FRAME DETAIL. SEE DETAIL SHEETS.
2. FOR STORM PROFILES, SEE SHEETS D06-D07.
3. CURB INLETS, FRAMES, AND GRATES PER CITY OF KELSO STANDARD PLANS. SEE DETAIL SHEETS.

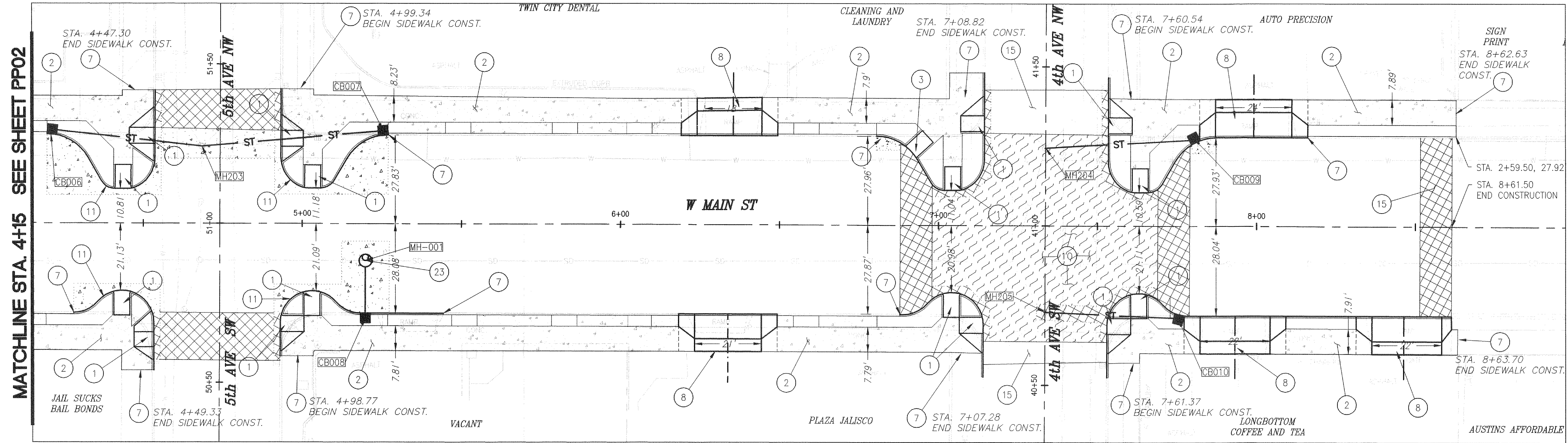
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Exp 10-28-16

REVISION	DATE	DESCRIPTION	BY
JOB No.	13564E	WEST MAIN STREET REVITALIZATION PROJECT PLAN STA 0+00 TO STA 4+15	
Designed By:	MAK		
Drawn By:	NAR		
Checked By:	KMA		
DATE:	10/30/2015	CITY OF KELSO PUBLIC WORKS DEPARTMENT 203 S. PACIFIC AVE., SUITE 205 KELSO, WA 98626	
SCALE:	AS SHOWN		
DWG NO.:	PP02		
			SHEET NUMBER 18 of 57

SEC. 27, T8N, R2W, W.M.



MATCHLINE STA. 4+15 SEE SHEET PP02

STREET CONSTRUCTION NOTES:

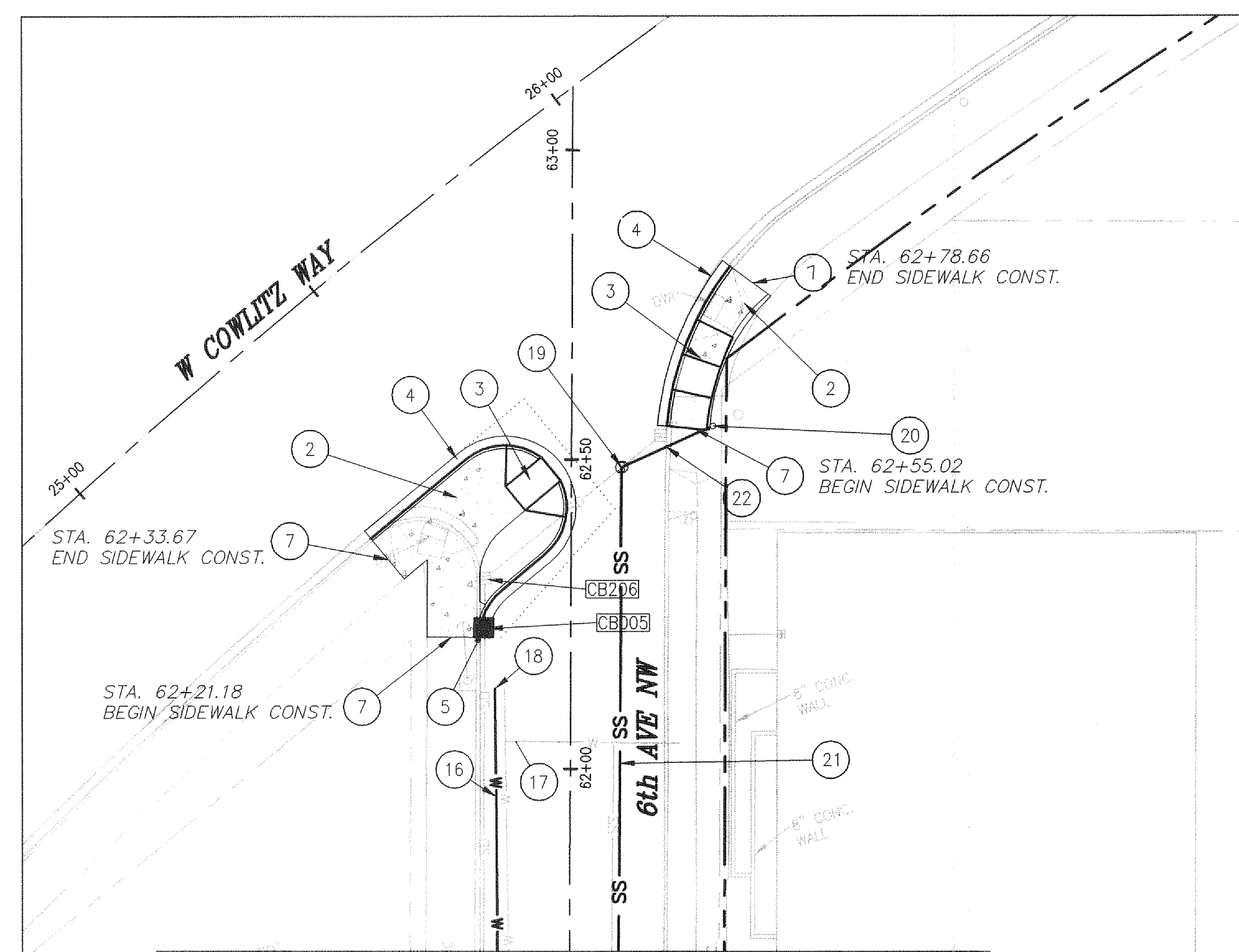
- 1 SIDEWALK AND CURB RAMP DESIGN A. SEE DETAIL ST-140 SHEET 07.
- 2 SIDEWALK. SEE DETAIL ST-140 & ST-150 SHEET 07.
- 3 SIDEWALK AND CURB RAMP ALTERNATE. SEE DETAIL ST-140 SHEET 07.
- 4 CURB AND GUTTER TYPE A. SEE DETAIL ST-110 SHEET 05.
- 5 CATCH BASIN. CONNECT TO EXISTING STORM LINE.
- 6 NOT USED
- 7 SAWCUT EXISTING HMA, CURB, AND/OR SIDEWALK AND MATCH EXISTING
- 8 CONCRETE DRIVEWAY. SEE DETAIL ON CR SHEETS.
- 9 WATER QUALITY CURB. SEE STORMWATER DETAIL SHEETS.
- 10 HMA RAISED INTERSECTION. SEE PAVING SHEETS.
- 11 STANDARD STRAIGHT CURB. SEE DETAIL ST-090 SHEET 05.
- 12 ASPHALT PAVING TRANSITION SECTION. SEE PAVING PLANS.
- 13 PLANTING AREA. SEE LANDSCAPE PLANS.
- 14 HYDRANT PER KELSO STD. PLAN W-150.
- 15 HMA TRANSITIONS. SEE PAVING PLANS.
- 16 CONSTRUCT NEW 6" D.I.P. WATERLINE.
- 17 CONNECT EXISTING 3" WATER SERVICE TO NEW WATERLINE.
- 18 STA. 62+12.85, 12.22' L. INSTALL 6" PLUG WITH 1" BLOW OFF.
- 19 STA. 62+48.75, 8.09' R. INSTALL NEW 48" SANITARY MANHOLE. SEE DETAIL SS-020 ON SHT. 05.
- 20 STA. 62+55.48, 23.83' R. INSTALL NEW 6" CLEAN OUT.
- 21 INSTALL NEW 8" SANITARY SEWER PIPE.
- 22 INSTALL NEW 6" SANITARY LATERAL. VERIFY SIZE.
- 23 STA. 5+19.85, 10.59' R. INSTALL NEW STORM MANHOLE SEE DETAIL SD-130 ON SHEET 05.

NEW STORM STRUCTURE INFORMATION

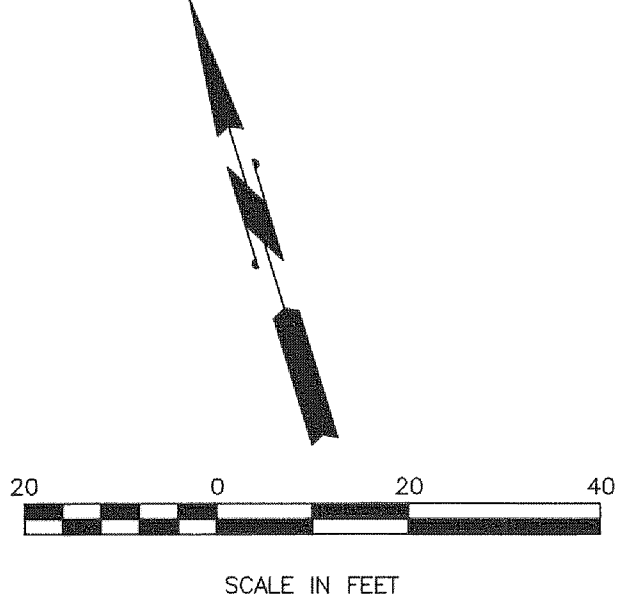
CB-005 PRECAST CATCH BASIN WITH VANED GRATE STA 62+23	CB-005 I.E.=20.20 +/- 6 IN. SD EXTG. S=1.3% +/-
CB-006 PRECAST CATCH BASIN CURB INLET STA 4+21	CB-006 I.E.OUT=21.25 48 LF 10 IN. SD S=0.5%
CB-007 PRECAST CATCH BASIN CURB INLET STA 5+25	CB-007 I.E.OUT=21.15 57 LF 10 IN. SD S=0.5%
CB-008 PRECAST CATCH BASIN CURB INLET STA 5+20	CB-008 I.E.OUT=20.75 20 LF 10 IN. SD S=4.0%
CB-009 PRECAST CATCH BASIN CURB INLET STA 7+80	CB-009 I.E.OUT=22.48 47 LF 10 IN. SD S=0.5%
CB-010 PRECAST CATCH BASIN CURB INLET STA 7+76	CB-010 I.E.OUT=22.75 42 LF 10 IN. SD S=2.2%

**EXISTING STORM STRUCTURE INFORMATION
MANHOLES**

MH203	SD MH STA 4+68, 24' LT RIM 24.09
MH204	SD MH STA. 7+34, 24' LT RIM 26.09
MH205	SD MH STA 7+33, 27' RT RIM 25.93
MH001	SD MH STA. 5+20, 11' LT RIM 24.51



MATCHLINE STA. 61+50 SEE SHEET PP02



- GENERAL NOTES:**
1. PRECAST CATCH BASIN PER CITY OF KELSO STANDARD PLANS SD-010, VANED GRATES DETAIL, AND RECTANGULAR FRAME DETAIL. SEE DETAIL SHEETS.
 2. FOR STORM PROFILES, SEE SHEETS D06-D07.
 3. CURB INLETS, FRAMES, AND GRATES PER CITY OF KELSO STANDARD PLANS. SEE DETAIL SHEETS.

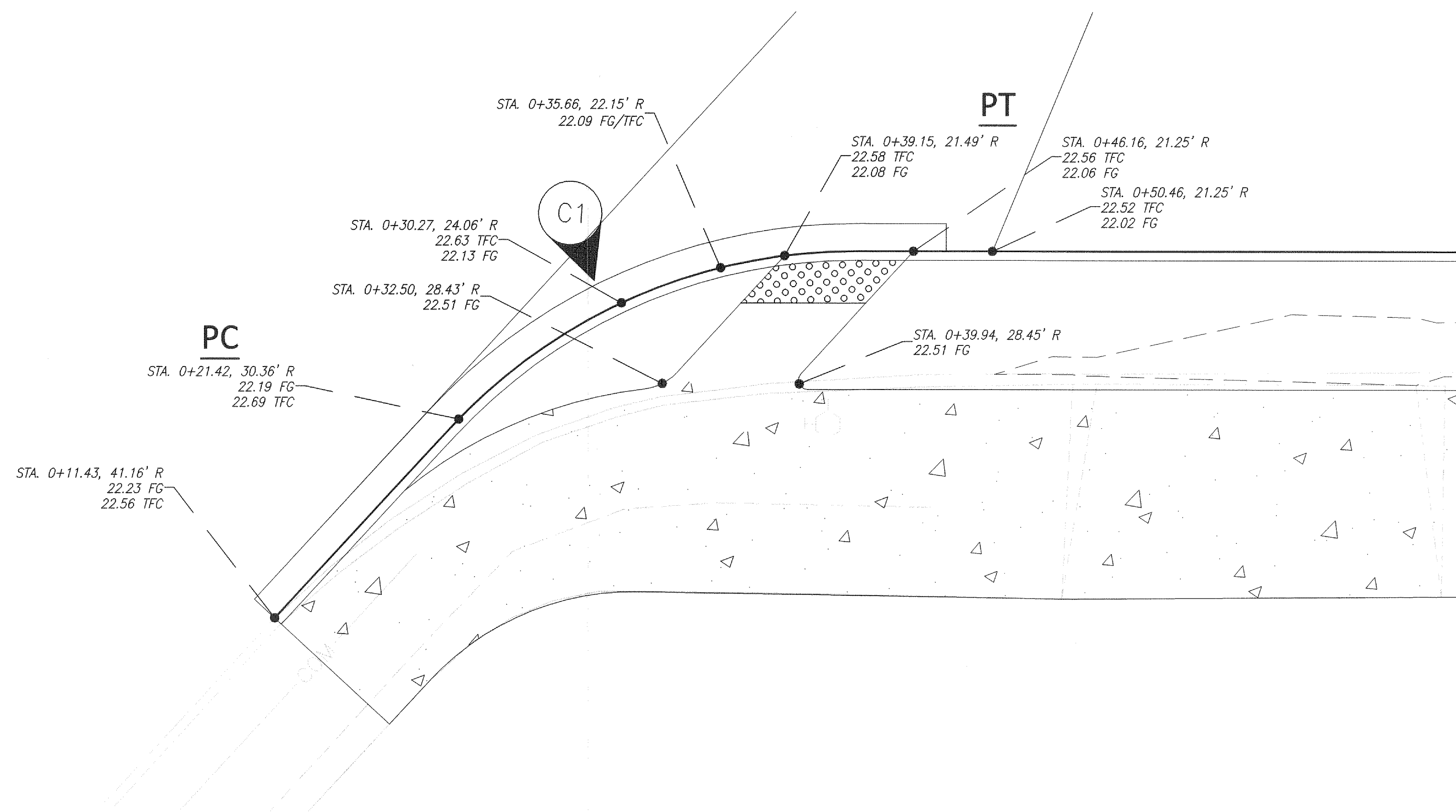
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REVISION	DATE	DESCRIPTION	BY
JOB No.	13564E		
Designed By:	MAK		
Drawn By:	NAR		
Checked By:	KMA		
DATE:	10/30/2015		
SCALE:	AS SHOWN		
DWG NO.:	PP03		

**WEST MAIN STREET
REVITALIZATION PROJECT**
PLAN - STA 4+15 TO STA 8+61.50 Main St
PLAN - STA 62+21.14 TO STA 62+81.32 6th Ave

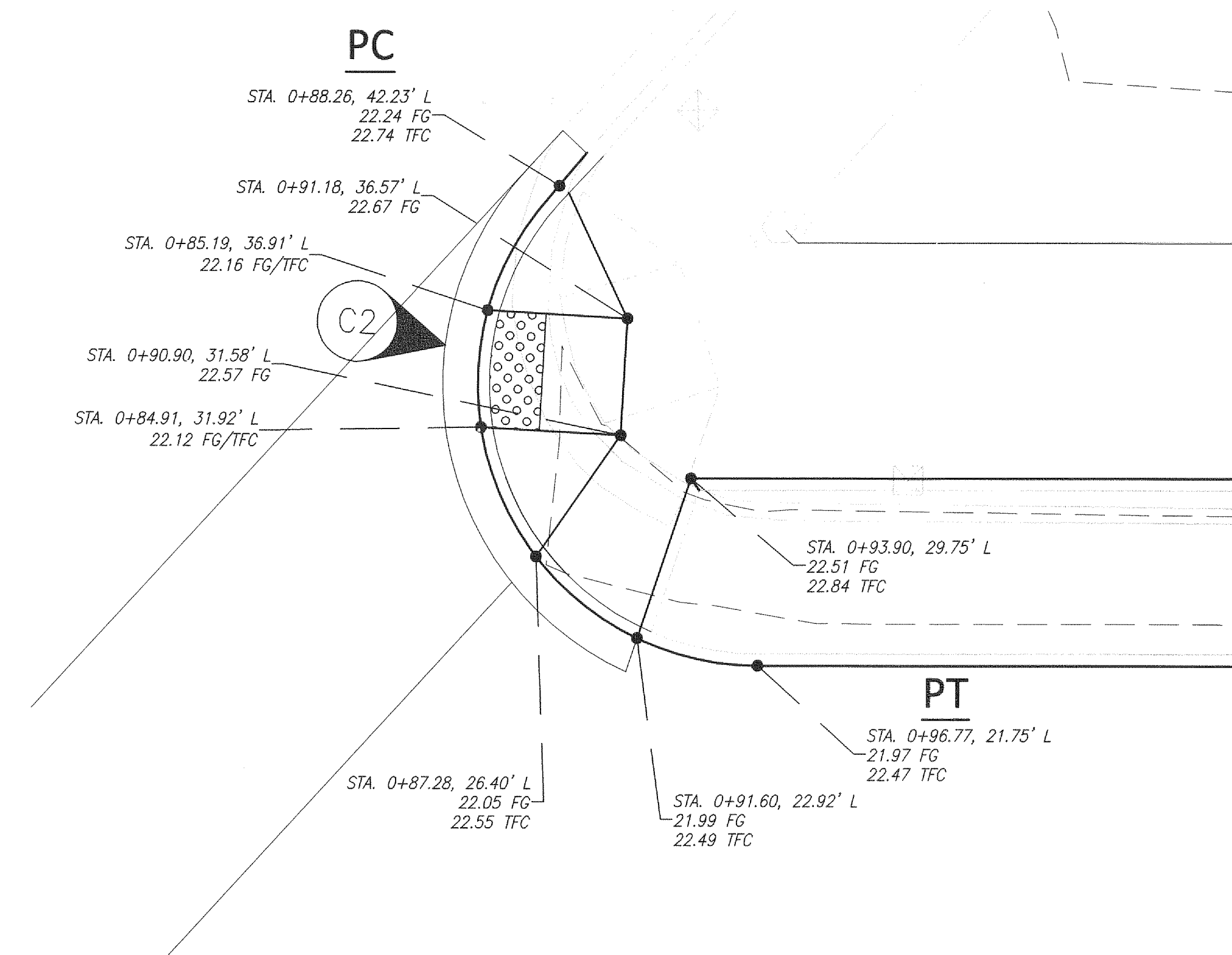
 CITY OF KELSO PUBLIC WORKS DEPARTMENT 203 S. PACIFIC AVE, SUITE 205 KELSO, WA 98626	SHEET NUMBER 19 of 57
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Mar 17, 2016 - 5:25pm
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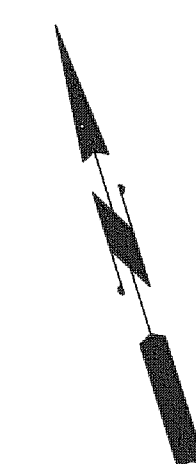
SE CORNER - COWLITZ AND MAIN

SCALE: 1" = 5'



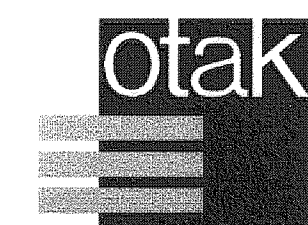
NE CORNER - COWLITZ AND MAIN

SCALE: 1" = 5'

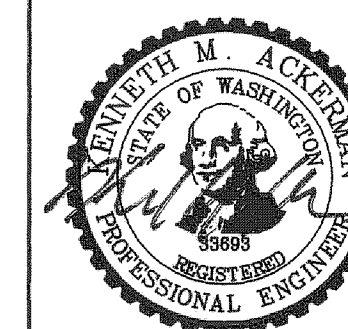


CURB RETURN		
PC STA 0+21.42, 30.36'RT	FG	22.20
1/4Δ =	FG	22.16
1/2Δ =	FG	22.11
3/4Δ =	FG	22.07
PT STA 0+42.96, 21.25'RT	FG	22.02
Δ =	45°15'41"	
R =	30.00'	
L =	24.75'	

CURB RETURN		
PC STA 0+89.74, 43.85'LT	FG	22.26
1/4Δ =	FG	22.21
1/2Δ =	FG	22.19
3/4Δ =	FG	22.11
PT STA 0+96.77, 21.75'LT	FG	21.97
Δ =	132°19'51"	
R =	12.00'	
L =	27.71'	



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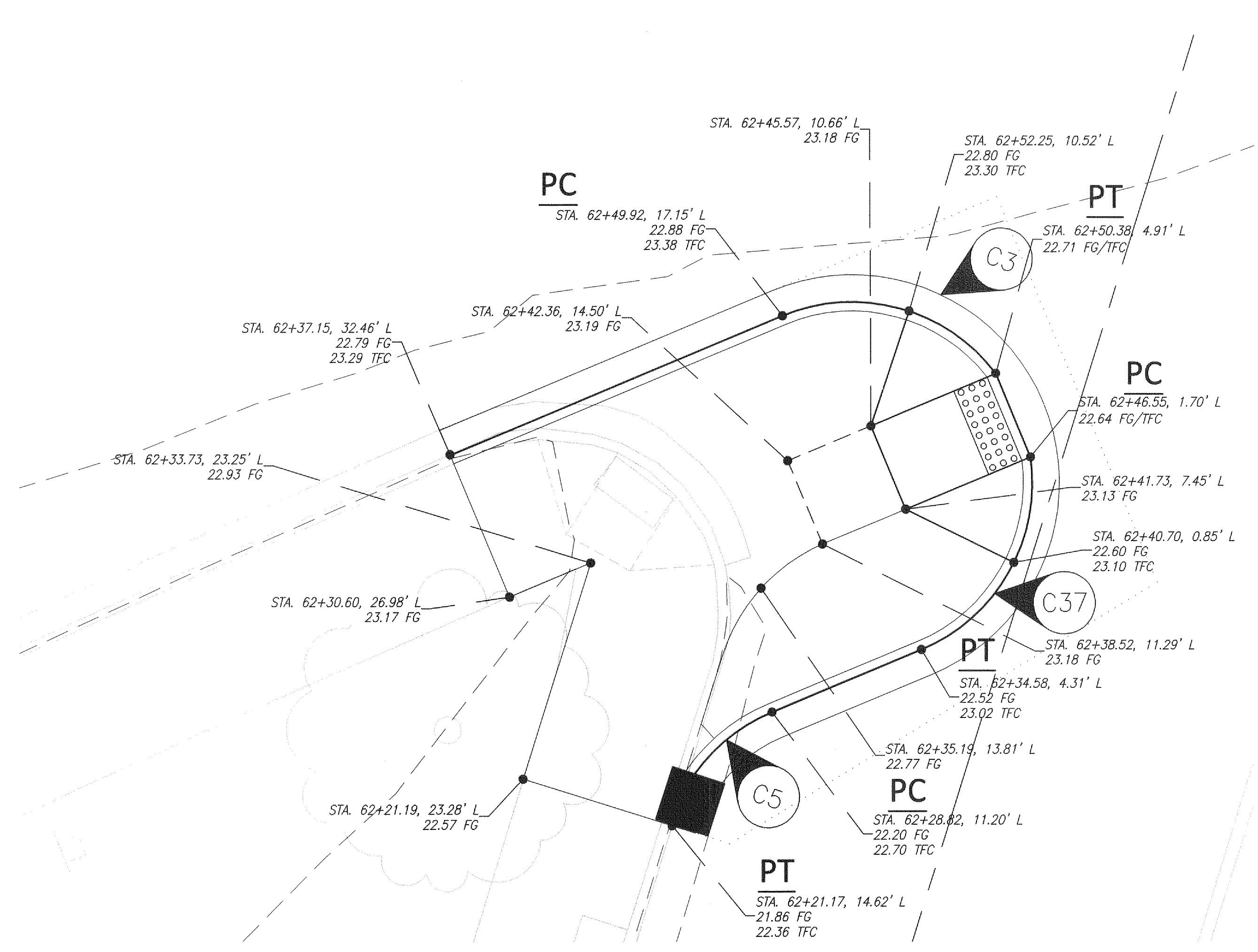


REVISION	DATE	DESCRIPTION	BY
JOB No.	13564E		
Designed By:	MAK		
Drawn By:	NAR		
Checked By:	KMA		
DATE:	10/30/2015		
SCALE:	AS SHOWN		
DWG NO.:	CR01		

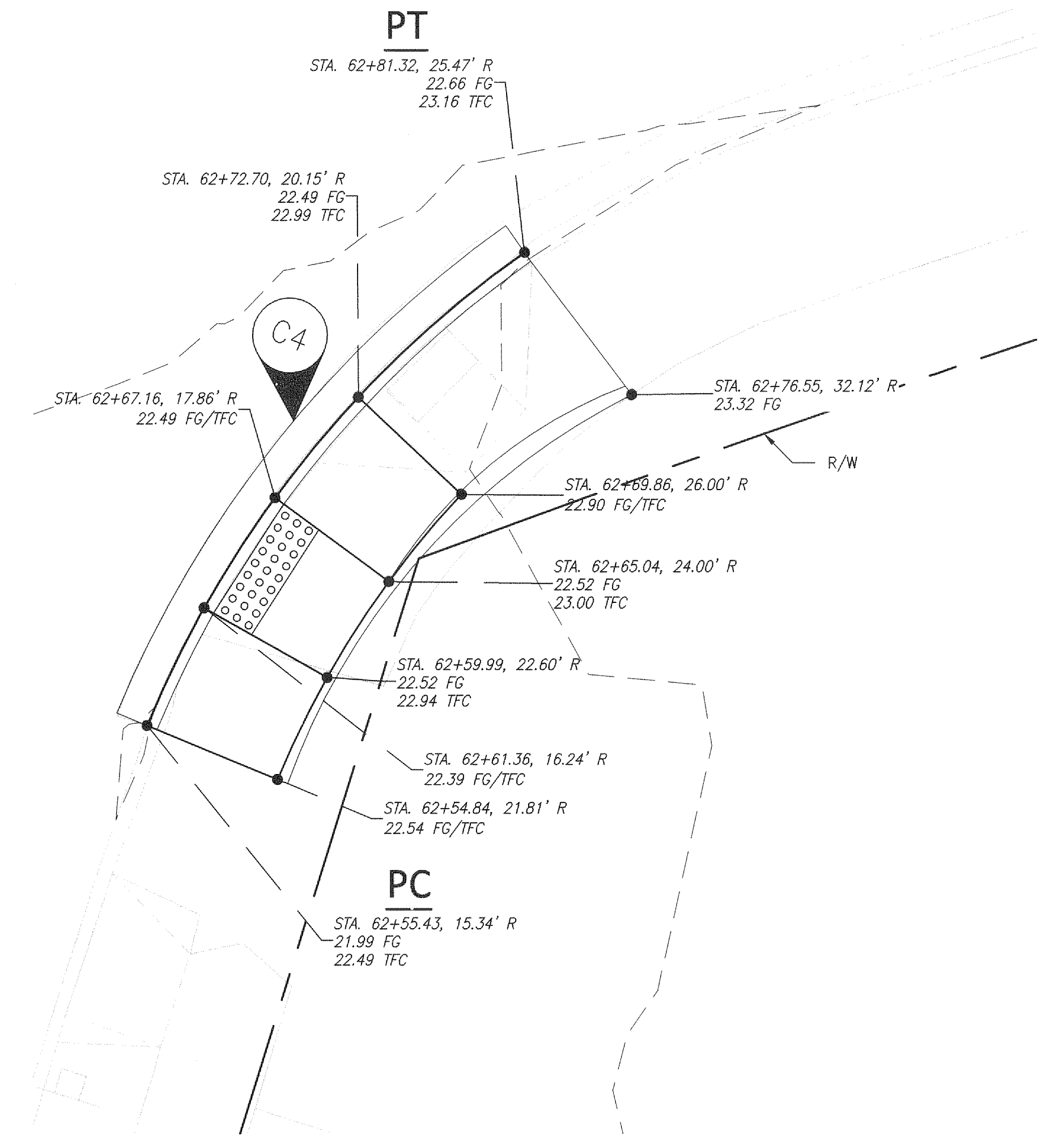
**WEST MAIN STREET
 REVITALIZATION PROJECT**
CURB RETURN DETAILS
W COWLITZ WAY AND W MAIN ST

 CITY OF KELSO PUBLIC WORKS DEPARTMENT 203 S. PACIFIC AVE., SUITE 205 KELSO, WA 98626	SHEET NUMBER 20 of 57
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Mar 17, 2016 - 2:22pm
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SW CORNER - COWLITZ AND 6TH
 SCALE: 1" = 5'



SE CORNER - COWLITZ AND 6TH
 SCALE: 1" = 5'



CURB RETURN	
C3	PC STA 62+49.92, 17.15' L FG 22.88
	1/4Δ = FG 22.84
	1/2Δ = FG 22.80
	3/4Δ = FG 22.75
	PT STA 62+34.58, 4.31' L FG 22.71
	Δ = 75°31'21"
	R = 10.00'
	L = 13.18'

CURB RETURN	
C4	PC STA 62+55.43, 15.34' R FG 21.99
	1/4Δ = FG 22.37
	1/2Δ = FG 22.44
	3/4Δ = FG 22.54
	PT STA 62+81.32, 25.47' R FG 22.76
	Δ = 32°17'02"
	R = 50.00'
	L = 28.17'

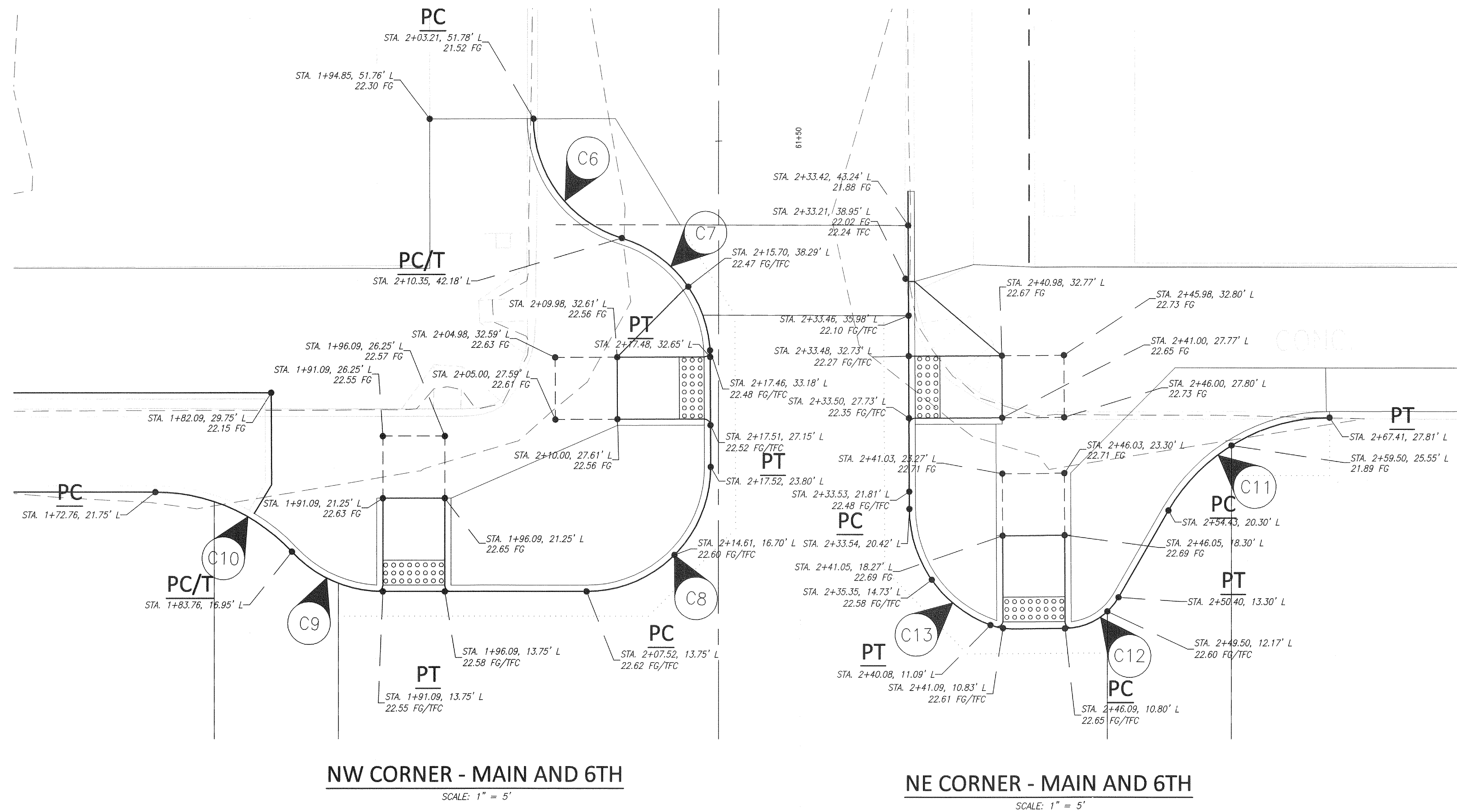
CURB RETURN	
C5	PC STA 62+28.82, 11.20' L FG 22.20
	1/4Δ = FG 22.01
	1/2Δ = FG 22.03
	3/4Δ = FG 21.95
	PT STA 62+21.17, 14.62' L FG 21.86
	Δ = 49°56'43"
	R = 10.00'
	L = 8.72'

CURB RETURN	
C37	PC STA 62+46.55, 1.70' L FG 22.64
	1/4Δ = FG 22.58
	1/2Δ = FG 22.52
	3/4Δ = FG 22.46
	PT STA 62+34.58, 4.31' L FG 22.40
	Δ = 75°31'21"
	R = 10.00'
	L = 13.18'

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REVISION	DATE	DESCRIPTION	BY
JOB No.	13564E		
Designed By:	MAK	WEST MAIN STREET REVITALIZATION PROJECT CURB RETURN DETAILS W COWLITZ WAY AND NW 6TH AVE	
Drawn By:	NAR		
Checked By:	KMA		
DATE:	10/30/2015		
SCALE:	AS SHOWN	CITY OF KELSO PUBLIC WORKS DEPARTMENT 203 S. PACIFIC AVE. SUITE 205 KELSO, WA 98626	
DWG NO.:	CR02	SHEET NUMBER 21 of 57	

Mar 17, 2016 - 2:22pm
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CURB RETURN			
C6	PC STA 2+03.21, 51.78'LT	FG	21.52
	1/4Δ =	FG	21.64
	1/2Δ =	FG	21.76
	3/4Δ =	FG	21.88
PT STA 2+10.35, 42.18'LT	FG	22.00	
Δ =	73°25'34"		
R =	10.00'		
L =	12.82'		

CURB RETURN			
C7	PC STA 2+10.35, 42.18'LT	FG	22.00
	1/4Δ =	FG	22.12
	1/2Δ =	FG	22.24
	3/4Δ =	FG	22.36
PT STA 2+17.48, 32.65'LT	FG	22.48	
Δ =	73°1'49"		
R =	10.00'		
L =	12.75'		

CURB RETURN			
C8	PC STA 2+07.52, 13.75'LT	FG	22.62
	1/4Δ =	FG	22.60
	1/2Δ =	FG	22.58
	3/4Δ =	FG	22.56
PT STA 2+17.52, 23.80'LT	FG	22.54	
Δ =	90°17'52"		
R =	10.00'		
L =	15.76'		

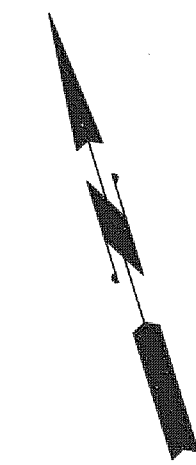
CURB RETURN			
C9	PC STA 1+83.76, 16.95'LT	FG	22.35
	1/4Δ =	FG	22.42
	1/2Δ =	FG	22.48
	3/4Δ =	FG	22.52
PT STA 1+91.09, 13.75'LT	FG	22.55	
Δ =	47°9'23"		
R =	10.00'		
L =	8.23'		

CURB RETURN			
C10	PC STA 1+72.76, 21.75'LT	FG	21.79
	1/4Δ =	FG	21.85
	1/2Δ =	FG	22.00
	3/4Δ =	FG	22.20
PT STA 1+83.76, 16.95'LT	FG	22.35	
Δ =	47°9'23"		
R =	15.00'		
L =	12.35'		

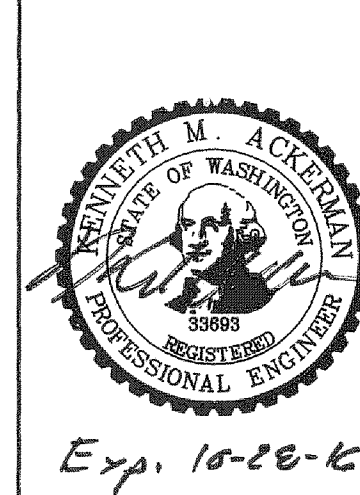
CURB RETURN			
C11	PC STA 2+54.43, 20.30'LT	FG	22.27
	1/4Δ =	FG	22.08
	1/2Δ =	FG	21.89
	3/4Δ =	FG	21.87
PT STA 2+67.41, 27.81'LT	FG	21.85	
Δ =	60°00'00"		
R =	15.00'		
L =	15.71'		

CURB RETURN			
C12	PC STA 2+46.09, 10.80'LT	FG	22.65
	1/4Δ =	FG	22.63
	1/2Δ =	FG	22.61
	3/4Δ =	FG	22.59
PT STA 2+50.40, 13.30'LT	FG	22.57	
Δ =	59°45'17"		
R =	5.00'		
L =	5.22'		

CURB RETURN			
C13	PC STA 2+33.54, 20.42'LT	FG	22.48
	1/4Δ =	FG	22.55
	1/2Δ =	FG	22.58
	3/4Δ =	FG	22.60
PT STA 2+40.08, 11.09'LT	FG	22.61	
Δ =	69°28'14"		
R =	10.00'		
L =	12.13'		



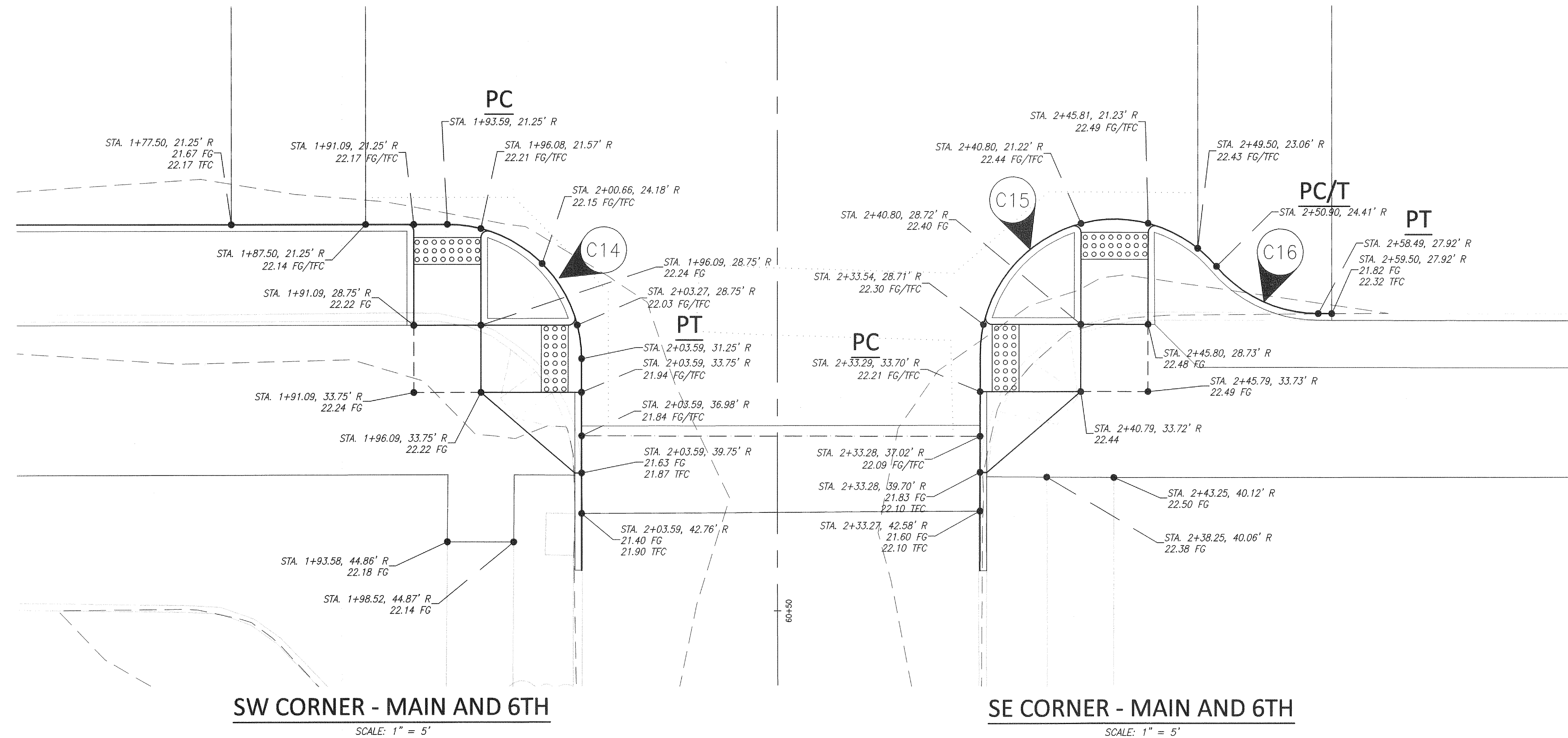
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REVISION	DATE	DESCRIPTION	BY
JOB No.	13564E		
Designed By:	MAK		
Drawn By:	NAR		
Checked By:	KMA		
DATE:	10/30/2015		
SCALE:	AS SHOWN		
DWG NO.:	CR03		

WEST MAIN STREET REVITALIZATION PROJECT	
CURB RETURN DETAILS W MAIN ST AND NW 6TH AVE	
CITY OF KELSO	SHEET NUMBER
PUBLIC WORKS DEPARTMENT 203 S. PACIFIC AVE. SUITE 205 KELSO, WA 98626	22 of 57

Mar 17, 2016 - 2:22pm
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SW CORNER - MAIN AND 6TH

SCALE: 1" = 5'

SE CORNER - MAIN AND 6TH

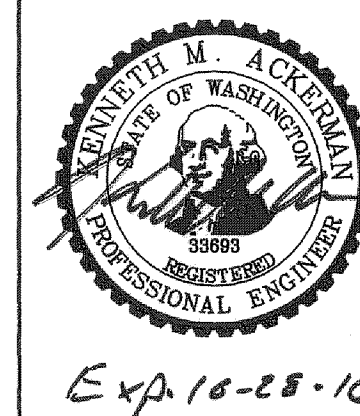
SCALE: 1" = 5'

CURB RETURN		
PC STA 1+93.59, 21.25'RT	FG 22.19	
1/4Δ =	FG 22.21	
1/2Δ =	FG 22.15	
3/4Δ =	FG 22.07	
PT STA 2+03.59, 31.25'RT	FG 21.98	
Δ =	90°00'00"	
R =	10.00'	
L =	15.71'	

CURB RETURN		
PC STA 2+33.29, 33.70'RT	FG 22.21	
1/4Δ =	FG 22.30	
1/2Δ =	FG 22.37	
3/4Δ =	FG 22.45	
PT STA 2+50.90, 24.41'RT	FG 22.44	
Δ =	139°25'9"	
R =	10.00'	
L =	24.33'	

CURB RETURN		
PC STA 2+50.90, 24.41'RT	FG 22.35	
1/4Δ =	FG 22.22	
1/2Δ =	FG 22.08	
3/4Δ =	FG 21.95	
PT STA 2+58.49, 27.92'RT	FG 21.82	
Δ =	49°27'30"	
R =	10.00'	
L =	8.63'	

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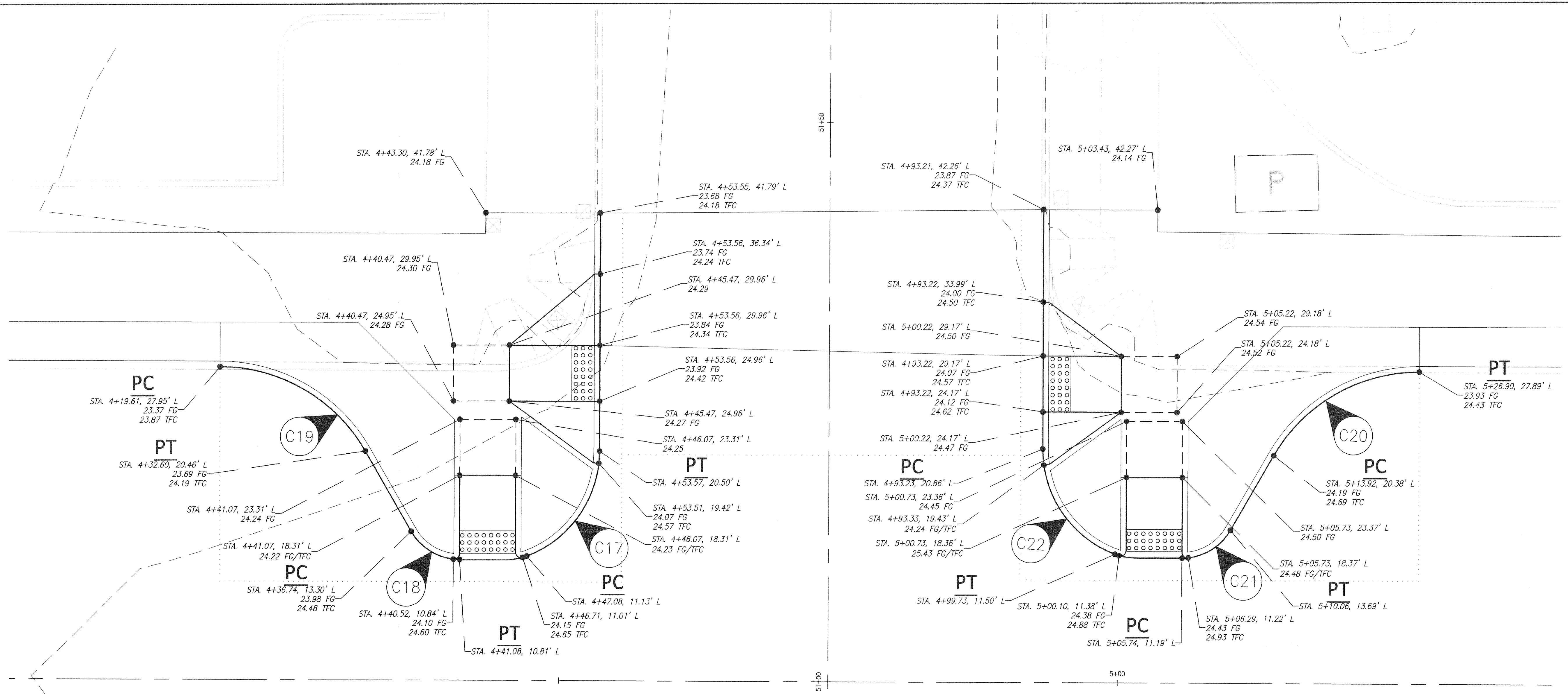
REVISION	DATE	DESCRIPTION	BY
JOB No.	13564E		
Designed By:	MAK		
Drawn By:	NAR		
Checked By:	KMA		
DATE:	10/30/2015		
SCALE:	AS SHOWN		
DWG NO.:	CR04		

**WEST MAIN STREET
 REVITALIZATION PROJECT
 CURB RETURN DETAILS
 W MAIN ST AND SW 6TH AVE**

CITY OF KELSO
 PUBLIC WORKS DEPARTMENT
 203 S. PACIFIC AVE. SUITE 205
 KELSO, WA 98626

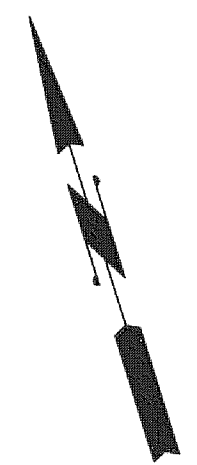
SHEET NUMBER	23 of 57
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N CORNERS - MAIN AND 5TH

SCALE: 1" = 5'



CURB RETURN		
PC STA 4+47.08, 11.13'LT	FG 24.15	
1/4Δ =	FG 24.12	
1/2Δ =	FG 24.09	
3/4Δ =	FG 24.06	
PT STA 4+53.57, 20.50'LT	FG 24.04	
Δ =	69°28'14"	
R =	10.00'	
L =	12.13'	

CURB RETURN		
PC STA 4+36.71, 13.30'LT	FG 23.98	
1/4Δ =	FG 24.01	
1/2Δ =	FG 24.04	
3/4Δ =	FG 24.07	
PT STA 4+41.08, 10.81'LT	FG 24.10	
Δ =	59°59'43"	
R =	5.00'	
L =	5.24'	

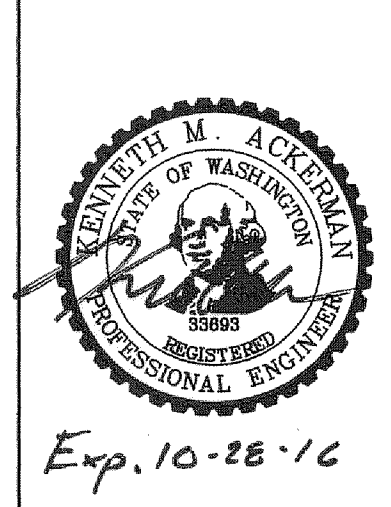
CURB RETURN		
PC STA 4+19.61, 27.95'LT	FG 23.37	
1/4Δ =	FG 23.45	
1/2Δ =	FG 23.53	
3/4Δ =	FG 23.61	
PT STA 4+32.60, 20.46'LT	FG 23.69	
Δ =	60°00'00"	
R =	15.00'	
L =	15.71'	

CURB RETURN		
PC STA 5+13.92, 20.38'LT	FG 24.19	
1/4Δ =	FG 24.12	
1/2Δ =	FG 24.05	
3/4Δ =	FG 23.99	
PT STA 5+26.90, 27.89'LT	FG 23.93	
Δ =	60°00'00"	
R =	15.00'	
L =	15.71'	

CURB RETURN		
PC STA 5+5.74, 11.19'LT	FG 24.43	
1/4Δ =	FG 24.41	
1/2Δ =	FG 24.40	
3/4Δ =	FG 24.39	
PT STA 5+10.06, 13.69'LT	FG 24.38	
Δ =	59°59'53"	
R =	5.00'	
L =	5.24'	

CURB RETURN		
PC STA 4+93.23, 20.86'LT	FG 24.21	
1/4Δ =	FG 24.25	
1/2Δ =	FG 24.29	
3/4Δ =	FG 24.34	
PT STA 4+99.73, 11.50'LT	FG 24.38	
Δ =	69°28'14"	
R =	10.00'	
L =	12.13'	

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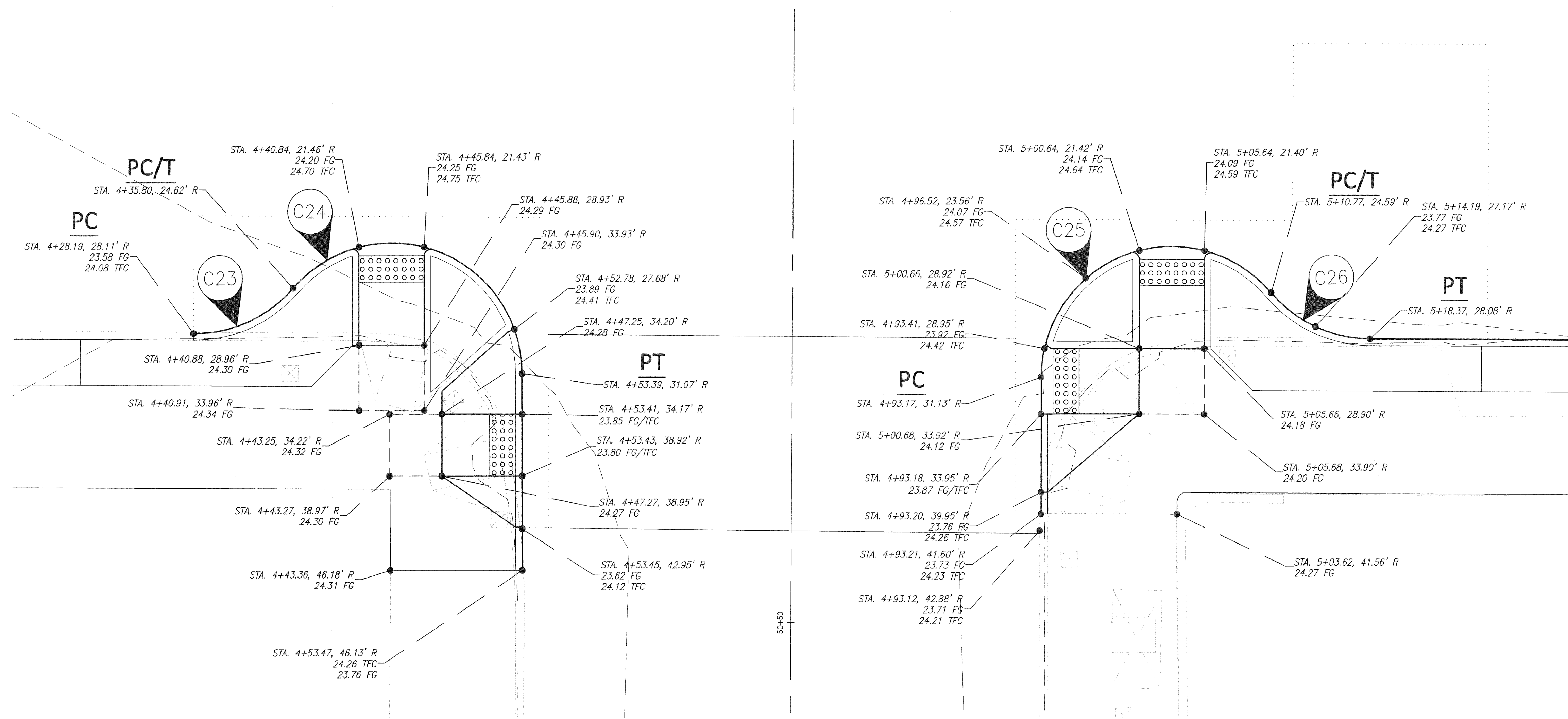


REVISION	DATE	DESCRIPTION	BY
JOB No.	13564E		
Designed By:	MAK		
Drawn By:	NAR		
Checked By:	KMA		
DATE:	10/30/2015		
SCALE:	AS SHOWN		
DWG NO.:	CR05		

**WEST MAIN STREET
 REVITALIZATION PROJECT
 CURB RETURN DETAILS
 W MAIN ST AND NW 5TH AVE**

CITY OF KELSO
 PUBLIC WORKS DEPARTMENT
 203 S. PACIFIC AVE. SUITE 205
 KELSO, WA 98626

SHEET NUMBER
24 of 57



S CORNERS - MAIN AND 5TH

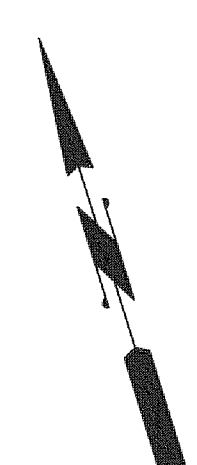
SCALE: 1" = 5'

CURB RETURN		
PC STA 4+28.19, 28.11' RT	FG 23.58	
1/4 Δ =	FG 23.62	
1/2 Δ =	FG 23.68	
3/4 Δ =	FG 23.70	
PT STA 4+35.80, 24.62' RT	FG 23.73	
Δ =	49'27"30"	
R =	10.00'	
L =	8.63'	

CURB RETURN		
PC STA 4+35.80, 24.62' RT	FG 23.73	
1/4 Δ =	FG 24.20	
1/2 Δ =	FG 24.05	
3/4 Δ =	FG 23.89	
PT STA 4+53.39, 31.07' RT	FG 23.87	
Δ =	139'4"55"	
R =	10.00'	
L =	24.27'	

CURB RETURN		
PC STA 4+93.17, 31.13' RT	FG 23.90	
1/4 Δ =	FG 24.07	
1/2 Δ =	FG 24.14	
3/4 Δ =	FG 24.09	
PT STA 5+10.77, 24.59' RT	FG 23.92	
Δ =	139'39"11"	
R =	10.00'	
L =	24.37'	

CURB RETURN		
PC STA 5+10.77, 24.59' RT	FG 23.90	
1/4 Δ =	FG 23.84	
1/2 Δ =	FG 23.78	
3/4 Δ =	FG 23.76	
PT STA 5+18.37, 28.08' RT	FG 23.74	
Δ =	49'27"30"	
R =	10.00'	
L =	8.63'	



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REVISION	DATE	DESCRIPTION	BY
JOB No.	13564E		
Designed By:	MAK		
Drawn By:	NAR		
Checked By:	KMA		
DATE:	10/30/2015		
SCALE:	AS SHOWN		
DWG NO.:	CR06		

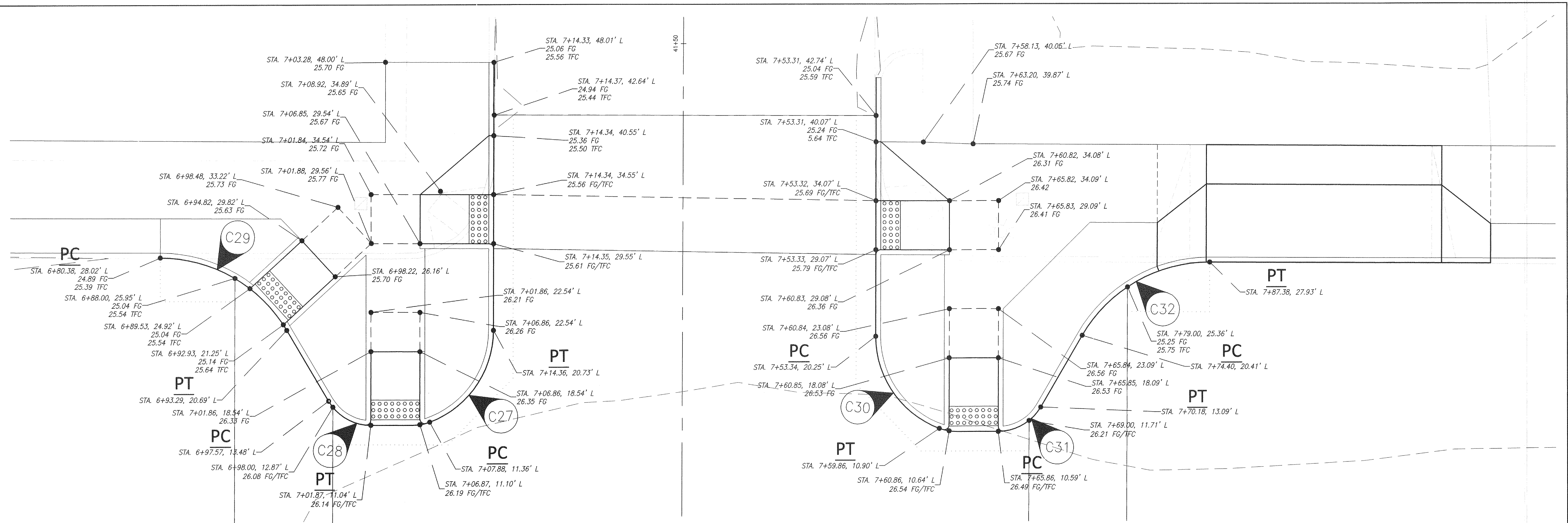
**WEST MAIN STREET
 REVITALIZATION PROJECT
 CURB RETURN DETAILS
 W MAIN ST AND SW 5TH AVE**

CITY OF KELSO
 PUBLIC WORKS DEPARTMENT
 203 S. PACIFIC AVE. SUITE 205
 KELSO, WA 98626

SHEET NUMBER
25 of 57

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Mar 17, 2016 - 2:22pm
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N CORNERS - MAIN AND 4TH
SCALE: 1" = 5'

CURB RETURN		
PC STA 7+07.88, 11.36'LT	FG 26.19	
1/4Δ =	FG 26.15	
1/2Δ =	FG 26.11	
3/4Δ =	FG 26.07	
PT STA 7+14.36, 20.73'LT	FG 26.04	
Δ =	69°27'44"	
R =	10.00'	
L =	12.12'	

CURB RETURN		
PC STA 6+97.57, 13.48'LT	FG 26.03	
1/4Δ =	FG 26.06	
1/2Δ =	FG 26.09	
3/4Δ =	FG 26.12	
PT STA 7+01.87, 11.04'LT	FG 26.15	
Δ =	59°18'59"	
R =	5.00'	
L =	5.18'	

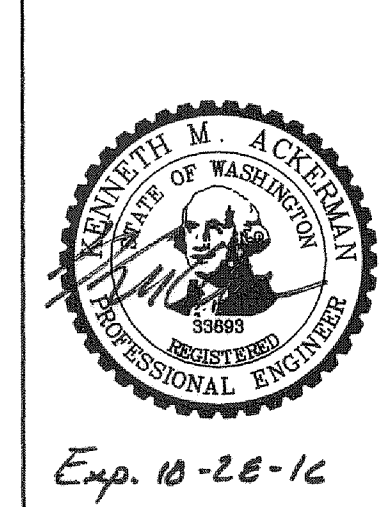
CURB RETURN		
PC STA 6+80.38, 28.02'LT	FG 24.89	
1/4Δ =	FG 24.96	
1/2Δ =	FG 25.04	
3/4Δ =	FG 25.10	
PT STA 6+93.29, 20.69'LT	FG 25.15	
Δ =	59°18'59"	
R =	15.00'	
L =	15.52'	

CURB RETURN		
PC STA 7+53.34, 20.25'LT	FG 26.13	
1/4Δ =	FG 26.23	
1/2Δ =	FG 26.33	
3/4Δ =	FG 26.43	
PT STA 7+59.86, 10.90'LT	FG 26.53	
Δ =	60°30'45"	
R =	10.00'	
L =	12.13'	

CURB RETURN		
PC STA 7+65.86, 10.59'LT	FG 26.49	
1/4Δ =	FG 26.35	
1/2Δ =	FG 26.21	
3/4Δ =	FG 26.18	
PT STA 7+70.18, 13.09'LT	FG 26.14	
Δ =	59°58'14"	
R =	5.00'	
L =	5.23'	

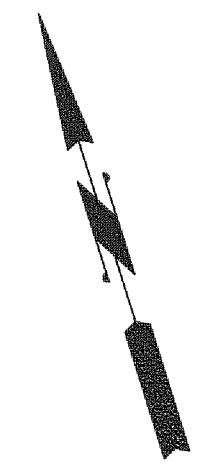
CURB RETURN		
PC STA 7+74.40, 20.41'LT	FG 25.69	
1/4Δ =	FG 25.47	
1/2Δ =	FG 25.25	
3/4Δ =	FG 25.16	
PT STA 7+87.38, 27.93'LT	FG 25.12	
Δ =	60°00'00"	
R =	15.00'	
L =	15.71'	

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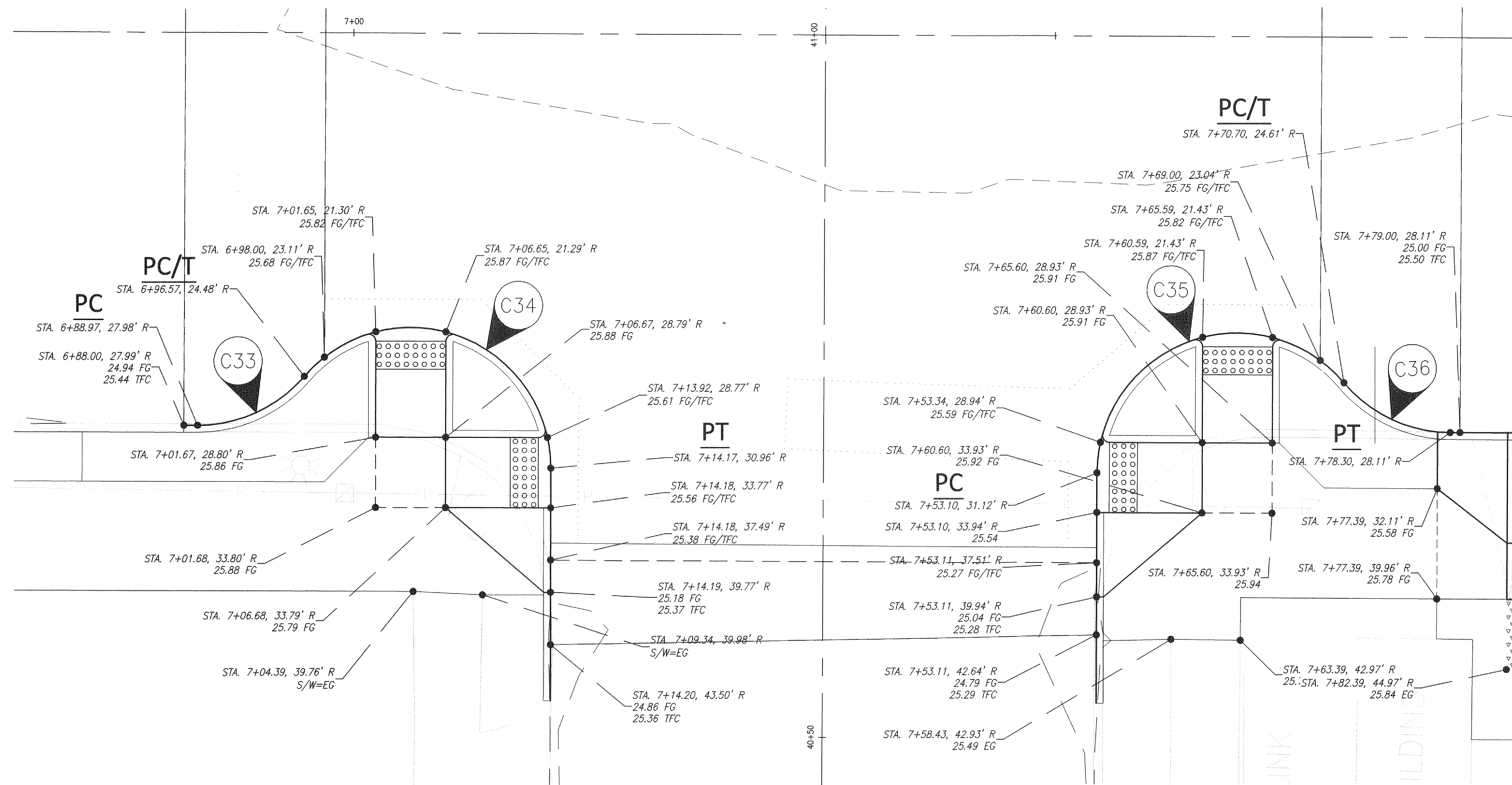


REVISION	DATE	DESCRIPTION	BY
JOB No.	13564E		
Designed By:	MAK		
Drawn By:	NAR		
Checked By:	KMA		
DATE:	10/30/2015		
SCALE:	AS SHOWN		
DWG NO.:	CR07		

WEST MAIN STREET REVITALIZATION PROJECT CURB RETURN DETAILS W MAIN ST AND NW 4TH AVE		 CITY OF KELSO PUBLIC WORKS DEPARTMENT 203 S. PACIFIC AVE. SUITE 205 KELSO, WA 98626	SHEET NUMBER 26 of 57
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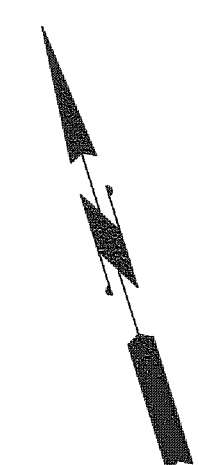


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S CORNERS - MAIN AND 4TH

SCALE: 1" = 5'



CURB RETURN		
PC STA 6+88.97, 27.98' RT	FG 24.94	
1/4 Δ =	FG 25.02	
1/2 Δ =	FG 25.20	
3/4 Δ =	FG 25.39	
PT STA 6+96.57, 24.48' RT	FG 25.57	
Δ = 49°27'30"		
R = 10.00'		
L = 8.63'		

CURB RETURN		
PC STA 6+96.57, 24.48' RT	FG 25.65	
1/4 Δ =	FG 25.87	
1/2 Δ =	FG 25.74	
3/4 Δ =	FG 25.61	
PT STA 7+14.17, 30.96' RT	FG 25.57	
Δ = 139°22'38"		
R = 10.00'		
L = 24.33'		

CURB RETURN		
PC STA 7+53.10, 31.12' RT	FG 25.57	
1/4 Δ =	FG 25.59	
1/2 Δ =	FG 25.73	
3/4 Δ =	FG 25.87	
PT STA 7+70.70, 24.61' RT	FG 25.71	
Δ = 49°27'30"		
R = 10.00'		
L = 24.35'		

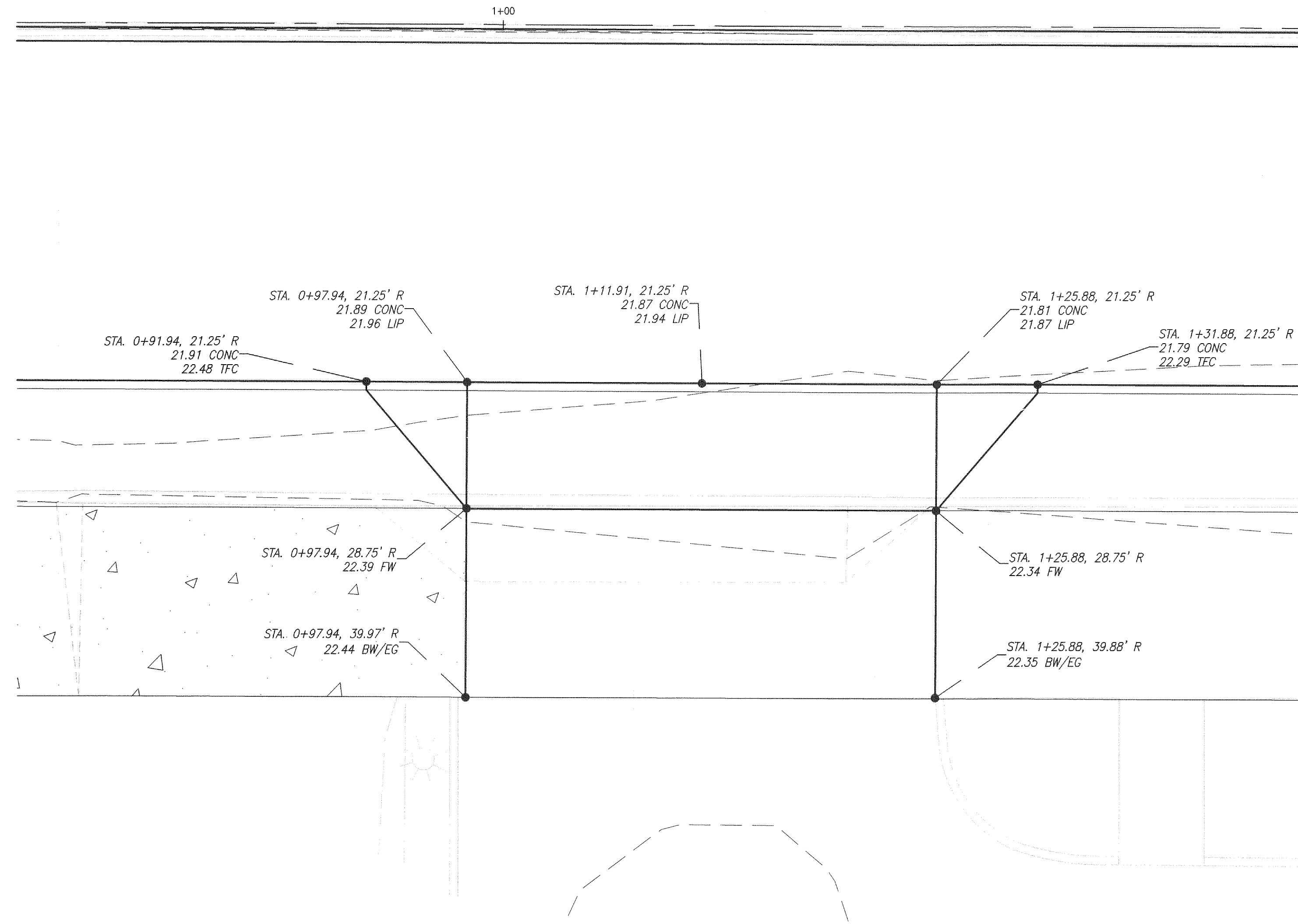
CURB RETURN		
PC STA 7+70.70, 24.61' RT	FG 25.62	
1/4 Δ =	FG 25.46	
1/2 Δ =	FG 25.31	
3/4 Δ =	FG 25.16	
PT STA 7+78.30, 28.11' RT	FG 25.02	
Δ = 49°27'30"		
R = 10.00'		
L = 8.63'		

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Exp. 10-28-16

REVISION	DATE	DESCRIPTION	BY
JOB No.	13564E		
Designed By:	MAK		
Drawn By:	NAR		
Checked By:	KMA		
DATE:	10/30/2015		
SCALE:	AS SHOWN		
DWG NO.:	CR08		

WEST MAIN STREET REVITALIZATION PROJECT		CITY OF KELSO	
CURB RETURN DETAILS		PUBLIC WORKS DEPARTMENT	
W MAIN ST AND SW 4TH AVE		203 S. PACIFIC AVE. SUITE 205	
		KELSO, WA 98626	
		SHEET NUMBER	
		27 of 57	

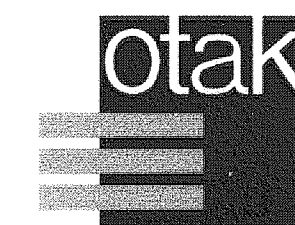


SOUTH SIDE DRIVEWAY - BETWEEN COWLITZ AND 6TH

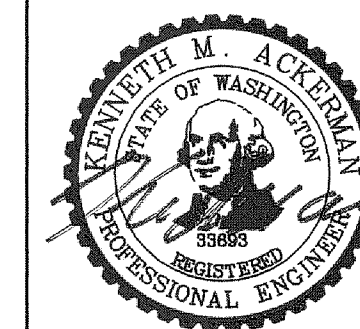
SCALE: 1" = 5'

GENERAL NOTES:
1. SEE SHEET D04 FOR TYPICAL SECTIONS

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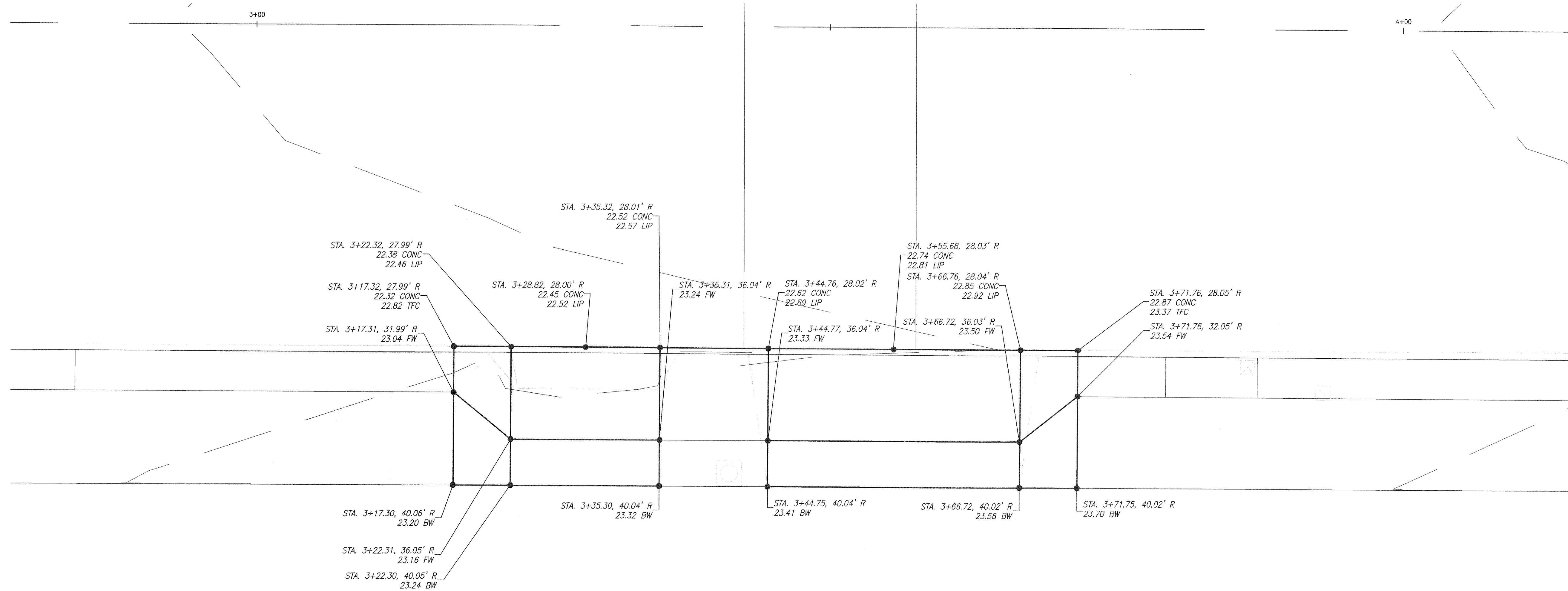


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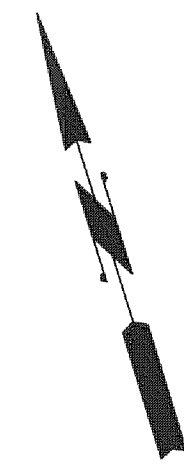
REVISION	DATE	DESCRIPTION	BY
JOB No.	13564E		
Designed By:	MAK		
Drawn By:	NAR		
Checked By:	KMA		
DATE:	10/30/2015		
SCALE:	AS SHOWN		
DWG NO.:	CR09		

WEST MAIN STREET REVITALIZATION PROJECT DRIVEWAY DETAILS W MAIN ST		
	CITY OF KELSO	SHEET NUMBER
	PUBLIC WORKS DEPARTMENT 203 S. PACIFIC AVE. SUITE 205 KELSO, WA 98626	28 of 57



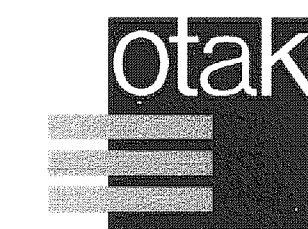
SOUTH SIDE DRIVEWAYS - BETWEEN 6TH AND 5TH

SCALE: 1" = 5'

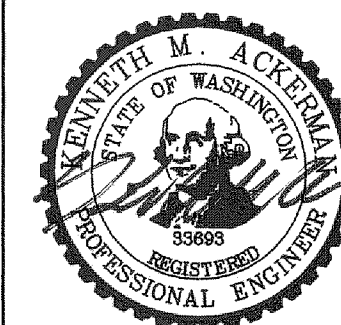


GENERAL NOTES:
1. SEE SHEET D04 FOR TYPICAL SECTIONS


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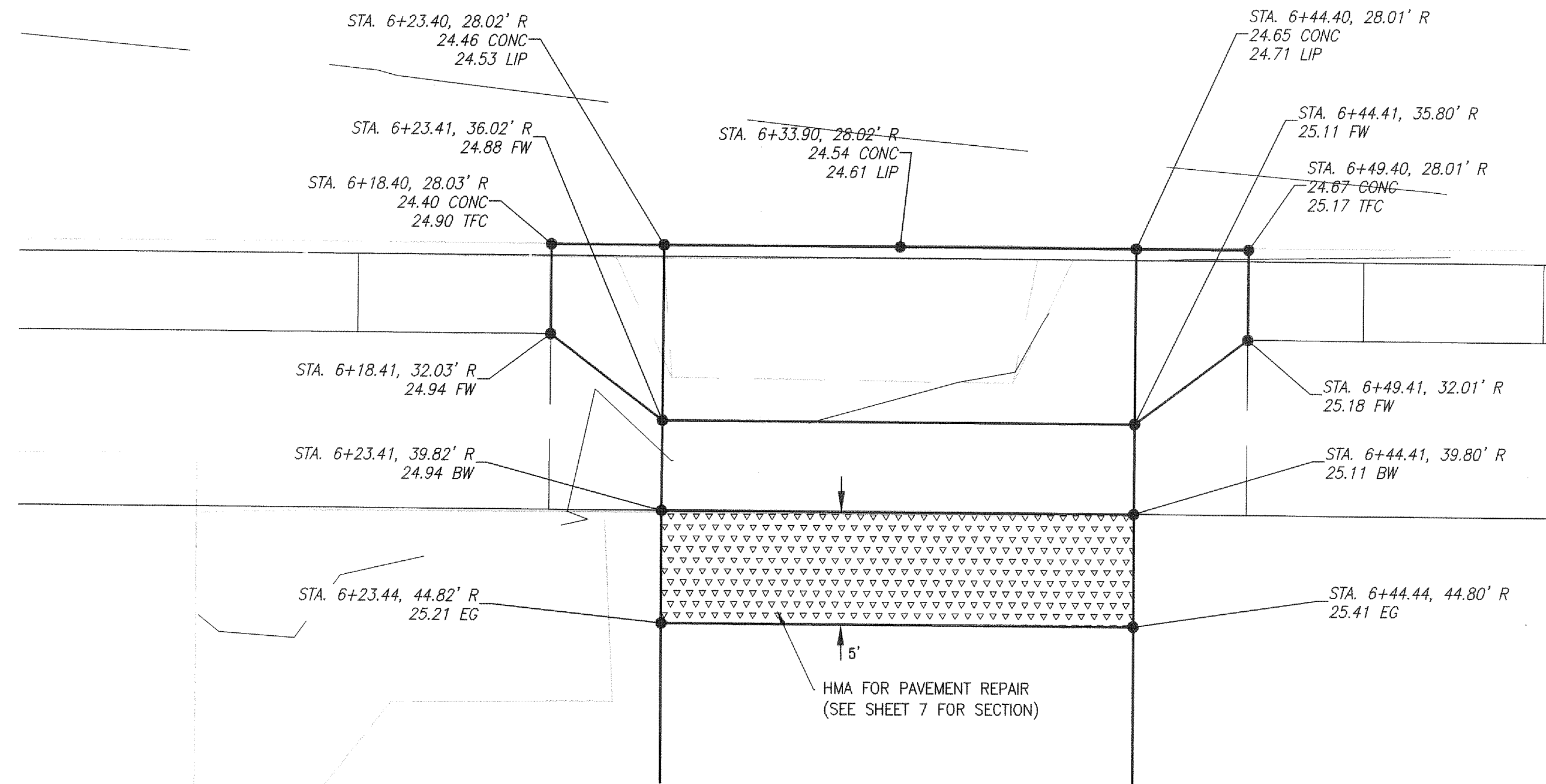
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Vancouver, WA 98660
Phone: (360) 737-9613
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Exp. 10-20-16

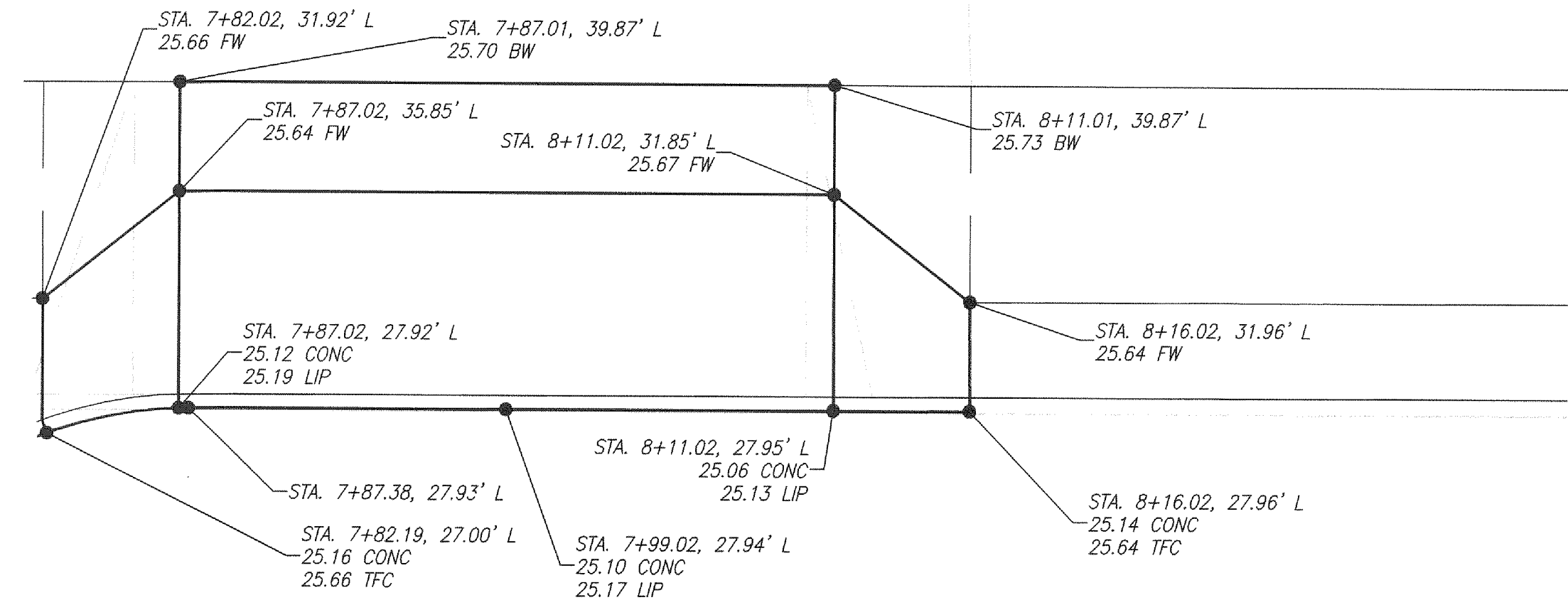
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Designed By:	MAK		
Drawn By:	NAR		
Checked By:	KMA		
DATE:	10/30/2015	 CITY OF KELSO PUBLIC WORKS DEPARTMENT 203 S. PACIFIC AVE. SUITE 205 KELSO, WA 98626	
SCALE:	AS SHOWN		
DWG NO.:	CR10		
		SHEET NUMBER 29 of 57	

Mar 17, 2016 - 2:23pm
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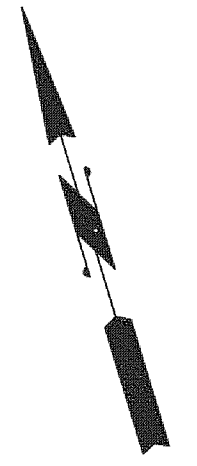
SOUTH SIDE DRIVEWAY - BETWEEN 5TH AND 4TH

SCALE: 1" = 2.5'

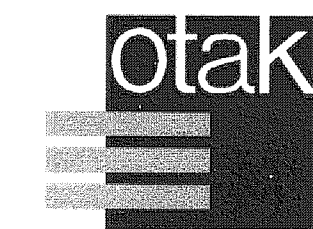


NORTH SIDE DRIVEWAY - BETWEEN 4TH AND 3RD

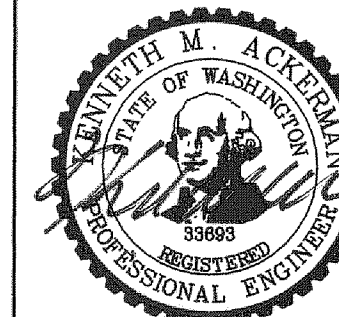
SCALE: 1" = 2.5'



GENERAL NOTES:
 1. SEE SHEET D04 FOR TYPICAL SECTIONS



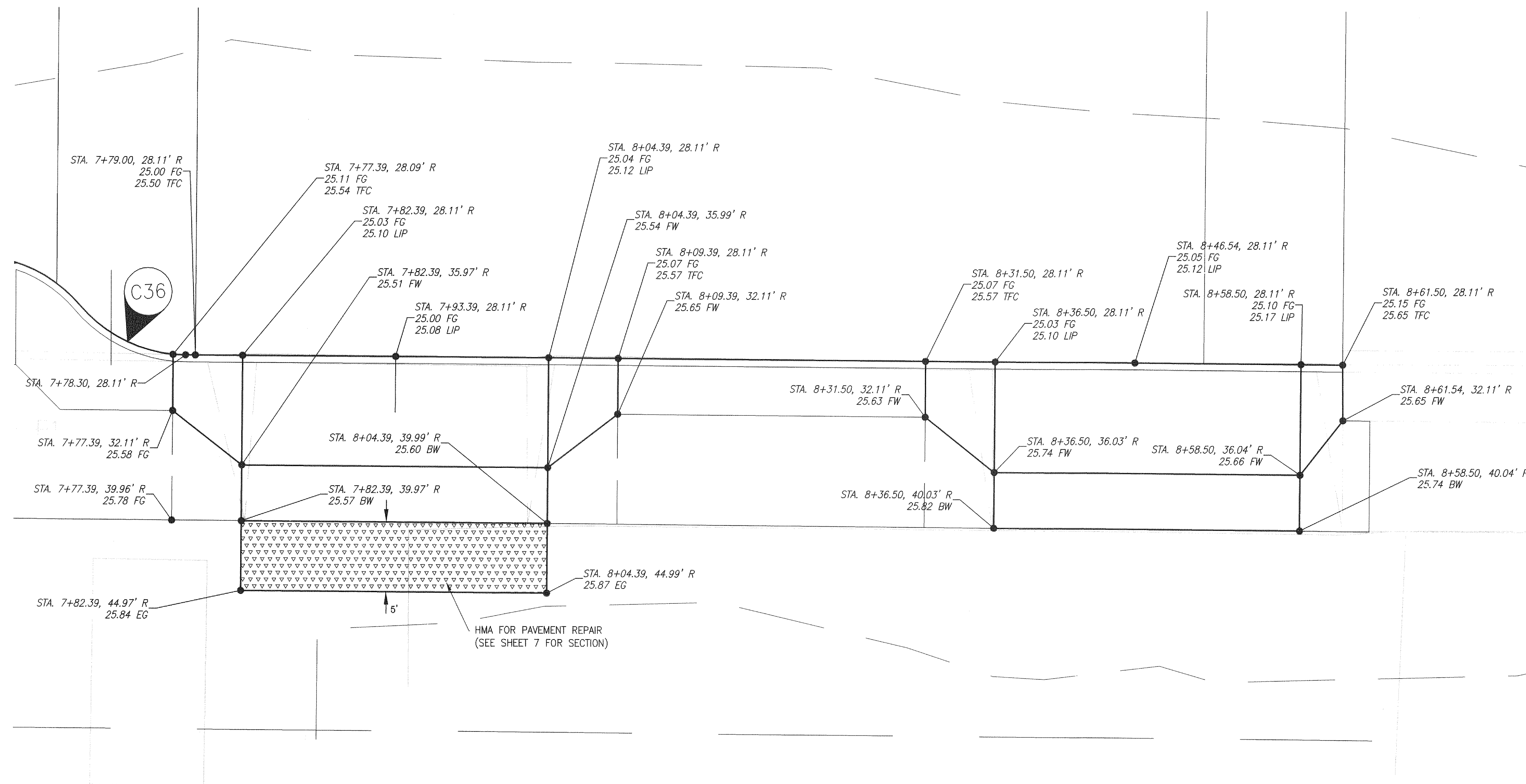
Hanmi Global Partner
 700 Washington Street
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 Vancouver, WA 98660
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Exp. 10-28-16

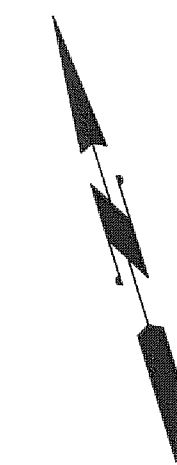
REVISION	DATE	DESCRIPTION	BY
JOB No.	13564E	WEST MAIN STREET REVITALIZATION PROJECT DRIVEWAY DETAILS W MAIN ST	
Designed By:	MAK		
Drawn By:	NAR		
Checked By:	KMA	CITY OF KELSO PUBLIC WORKS DEPARTMENT 203 S. PACIFIC AVE. SUITE 205 KELSO, WA 98626	
DATE:	10/30/2015		
SCALE:	AS SHOWN		
DWG NO.:	CR11	SHEET NUMBER 30 of 57	

Mar 17, 2016 - 2:23pm
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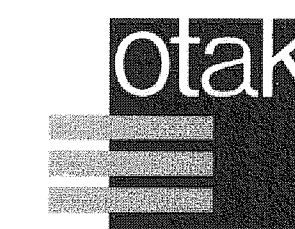


SOUTH SIDE DRIVEWAYS - BETWEEN 4TH AND 3RD

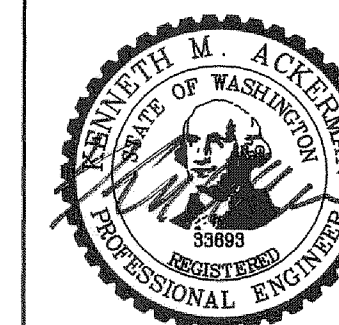
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GENERAL NOTES:
 1. SEE SHEET D04 FOR TYPICAL SECTIONS

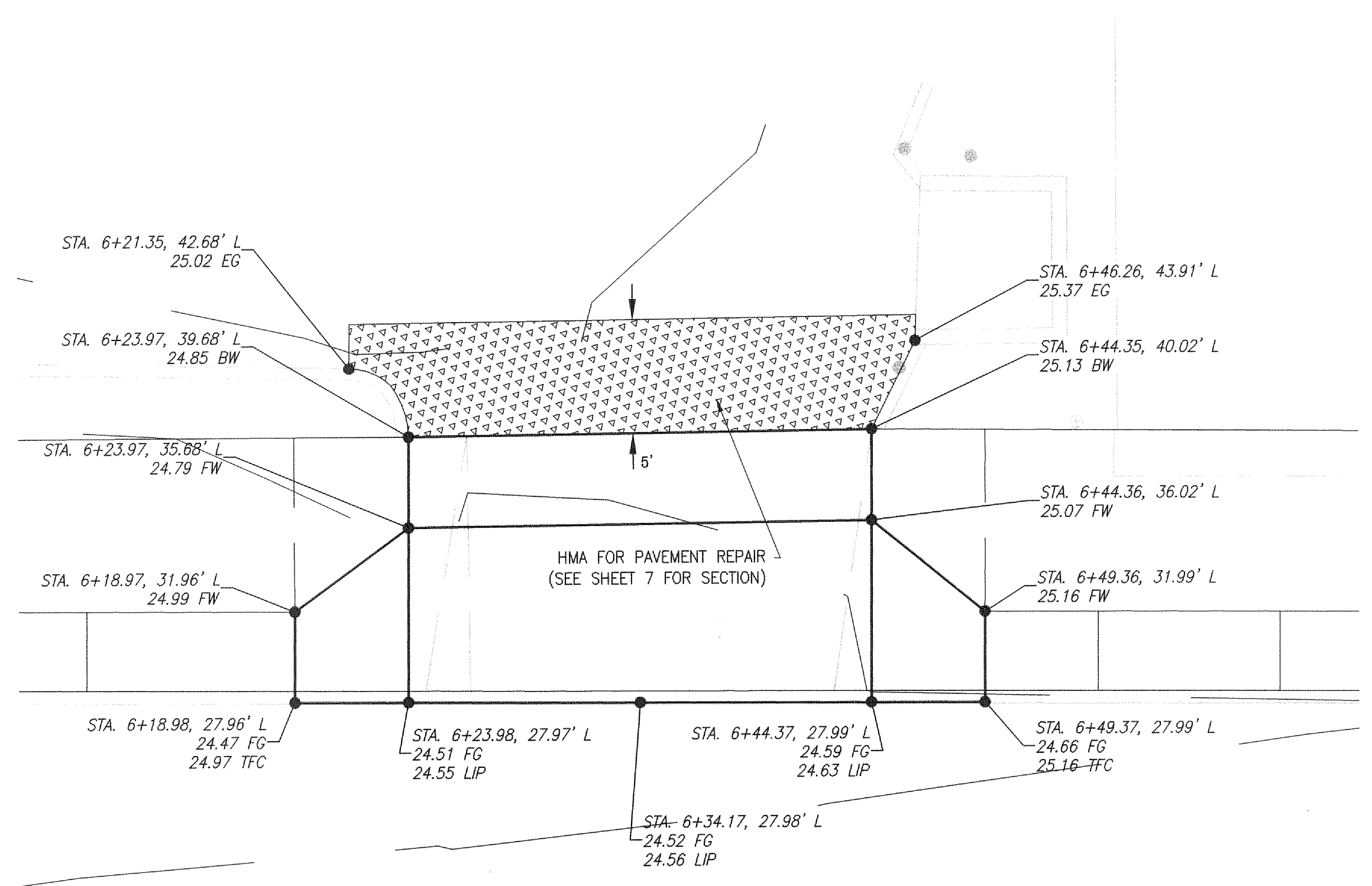


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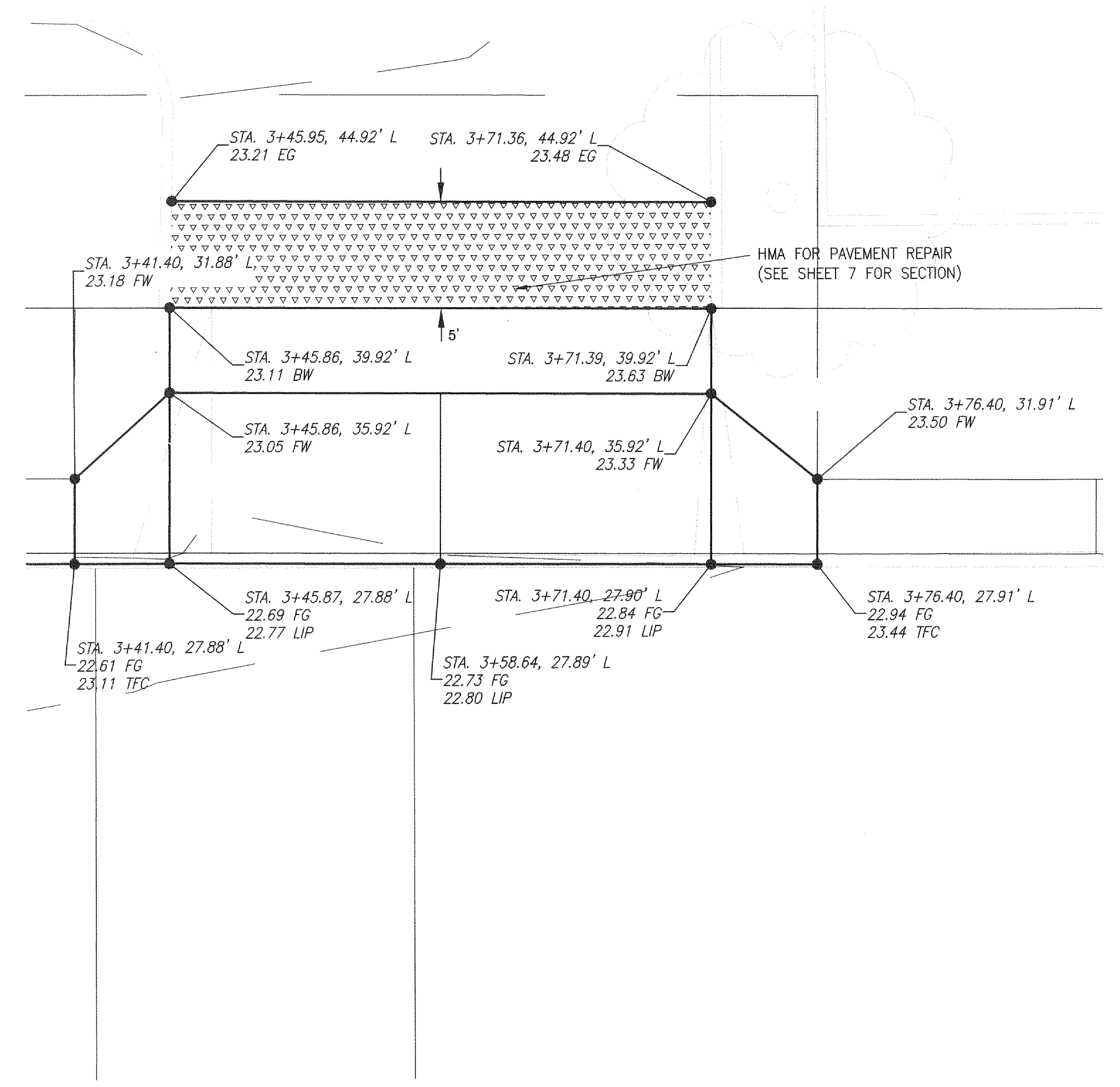
Exp. 10-28-16

REVISION	DATE	DESCRIPTION	BY
JOB No.	13564E	WEST MAIN STREET REVITALIZATION PROJECT DRIVEWAY DETAILS W MAIN ST	
Designed By:	MAK		
Drawn By:	NAR		
Checked By:	KMA		
DATE:	10/30/2015	CITY OF KELSO PUBLIC WORKS DEPARTMENT 203 S. PACIFIC AVE. SUITE 205 KELSO, WA 98626	
SCALE:	AS SHOWN		
DWG NO:	CR12		
			SHEET NUMBER 31 of 57



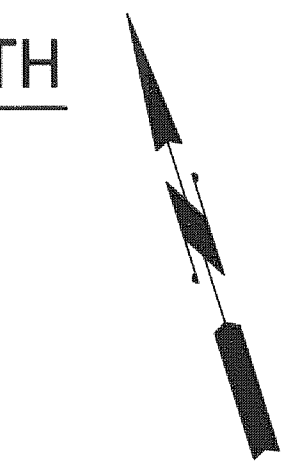
NORTH SIDE DRIVEWAY - BETWEEN 5TH AND 4TH

SCALE: 1" = 2.5'



NORTH SIDE DRIVEWAY - BETWEEN 6TH AND 5TH

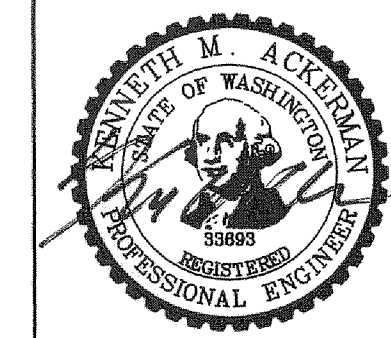
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GENERAL NOTES:
1. SEE SHEET D04 FOR TYPICAL SECTIONS

Mar 17, 2016 - 2:23pm
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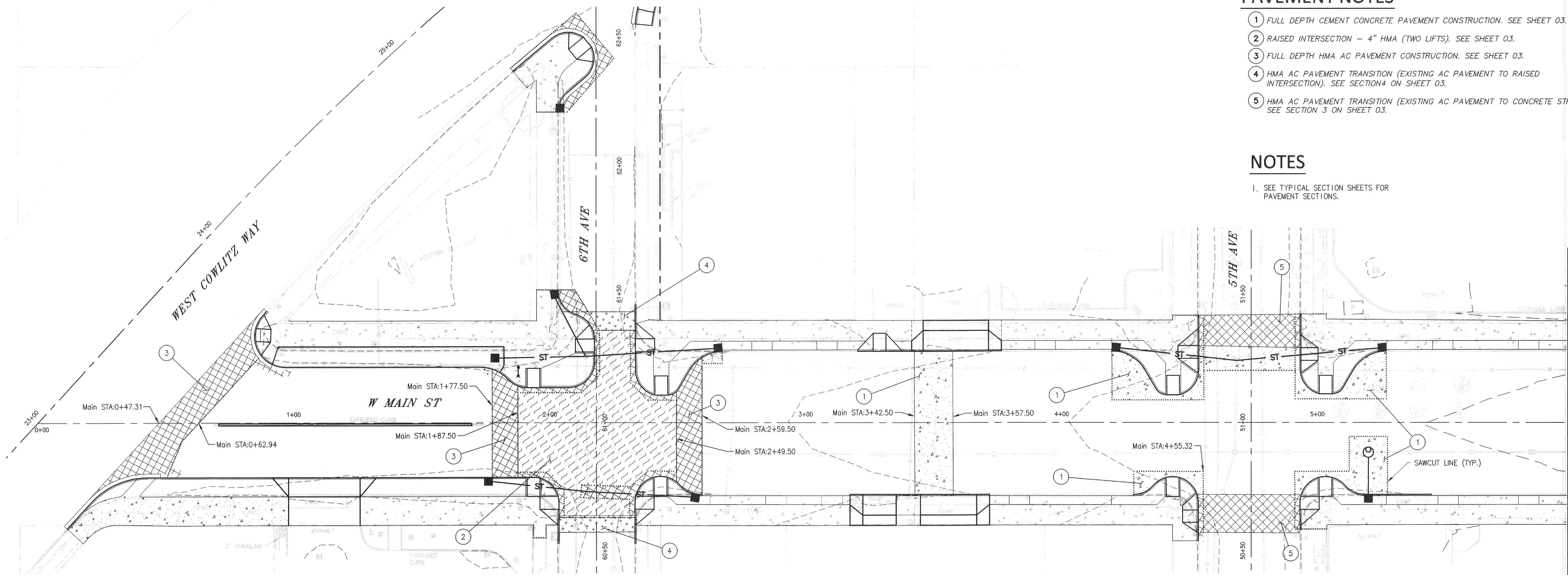
REVISION	DATE	DESCRIPTION	BY
JOB No.	13564E	WEST MAIN STREET REVITALIZATION PROJECT DRIVEWAY DETAILS W MAIN ST	
Designed By:	MAK		
Drawn By:	NAR		
Checked By:	KMA		
DATE:	10/30/2015	CITY OF KELSO PUBLIC WORKS DEPARTMENT 203 S. PACIFIC AVE. SUITE 205 KELSO, WA 98626	
SCALE:	AS SHOWN		
DWG NO.:	CR13		
			SHEET NUMBER 32 of 57

PAVEMENT NOTES

- 1 FULL DEPTH CEMENT CONCRETE PAVEMENT CONSTRUCTION. SEE SHEET 03.
- 2 RAISED INTERSECTION - 4" HMA (TWO LIFTS). SEE SHEET 03.
- 3 FULL DEPTH HMA AC PAVEMENT CONSTRUCTION. SEE SHEET 03.
- 4 HMA AC PAVEMENT TRANSITION (EXISTING AC PAVEMENT TO RAISED INTERSECTION). SEE SECTION 4 ON SHEET 03.
- 5 HMA AC PAVEMENT TRANSITION (EXISTING AC PAVEMENT TO CONCRETE STREET). SEE SECTION 3 ON SHEET 03.

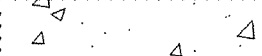
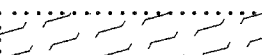

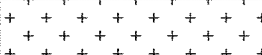

NOTES

1. SEE TYPICAL SECTION SHEETS FOR PAVEMENT SECTIONS.

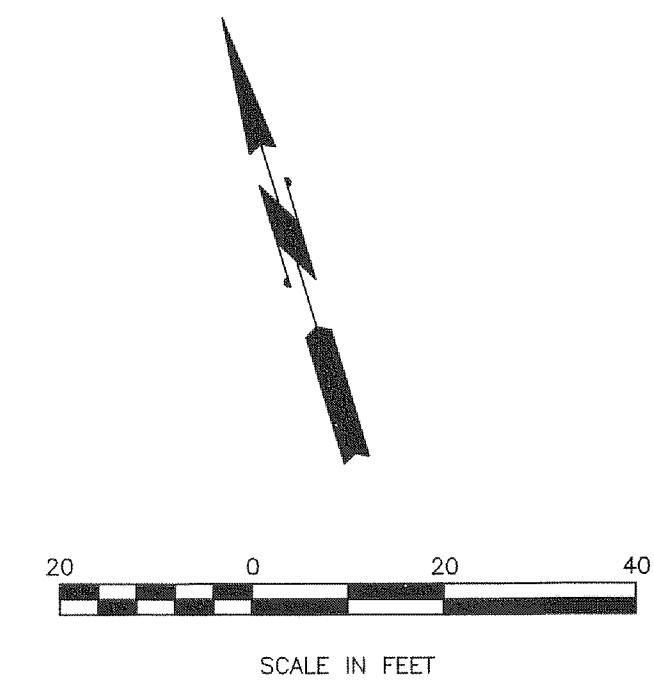
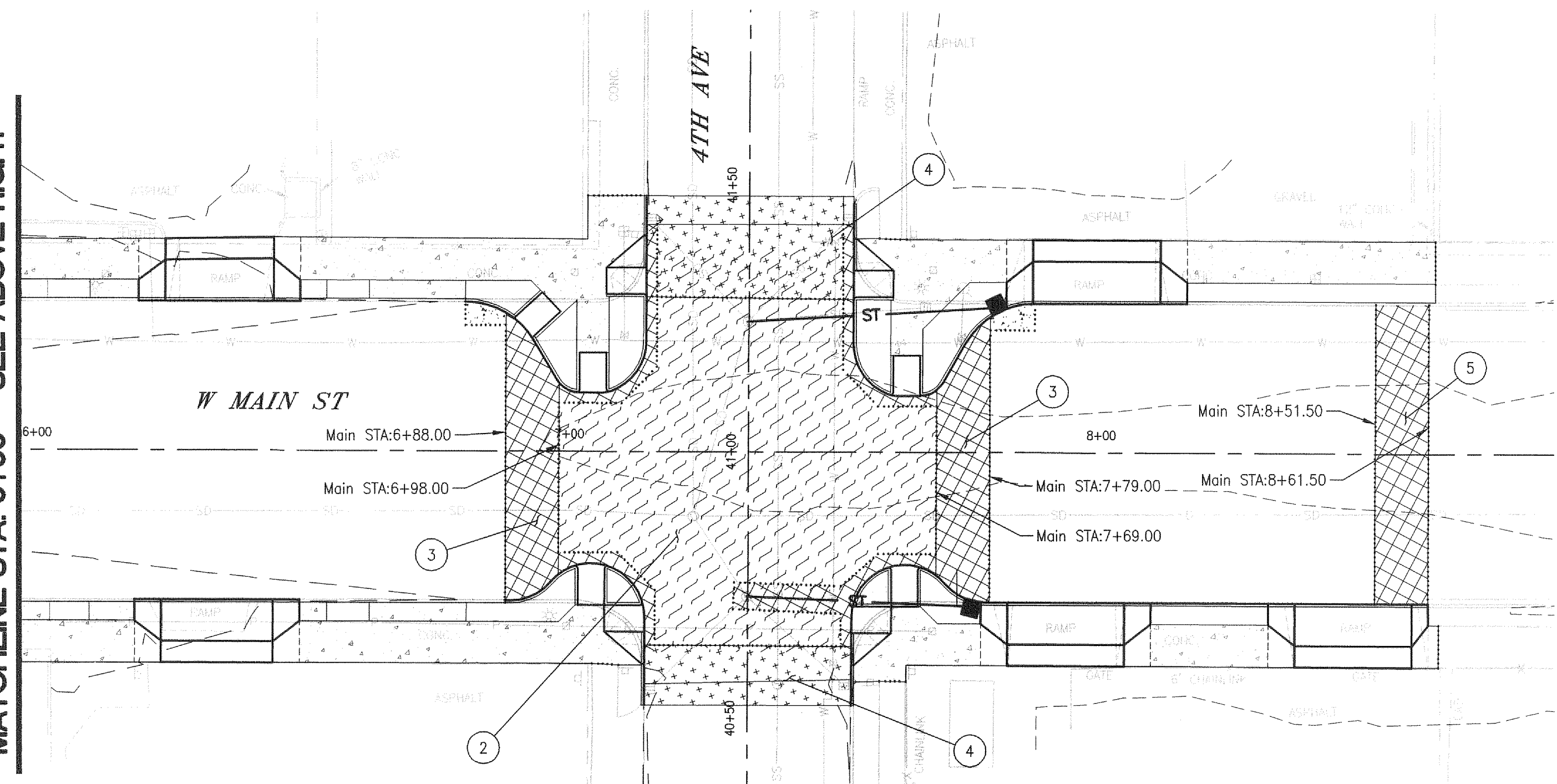


MATCHLINE STA. 6+00 SEE BELOW LEFT

LEGEND

-  SECTION 1 - FULL DEPTH CEMENT CONCRETE REPLACEMENT
-  SECTION 2 - RAISED INTERSECTION
-  SECTION 3 - FULL DEPTH HMA
-  SECTION 4 - HMA TRANSITION
-  SAWCUT LINE

MATCHLINE STA. 6+00 SEE ABOVE RIGHT



Mar 17, 2016 - 5:18pm
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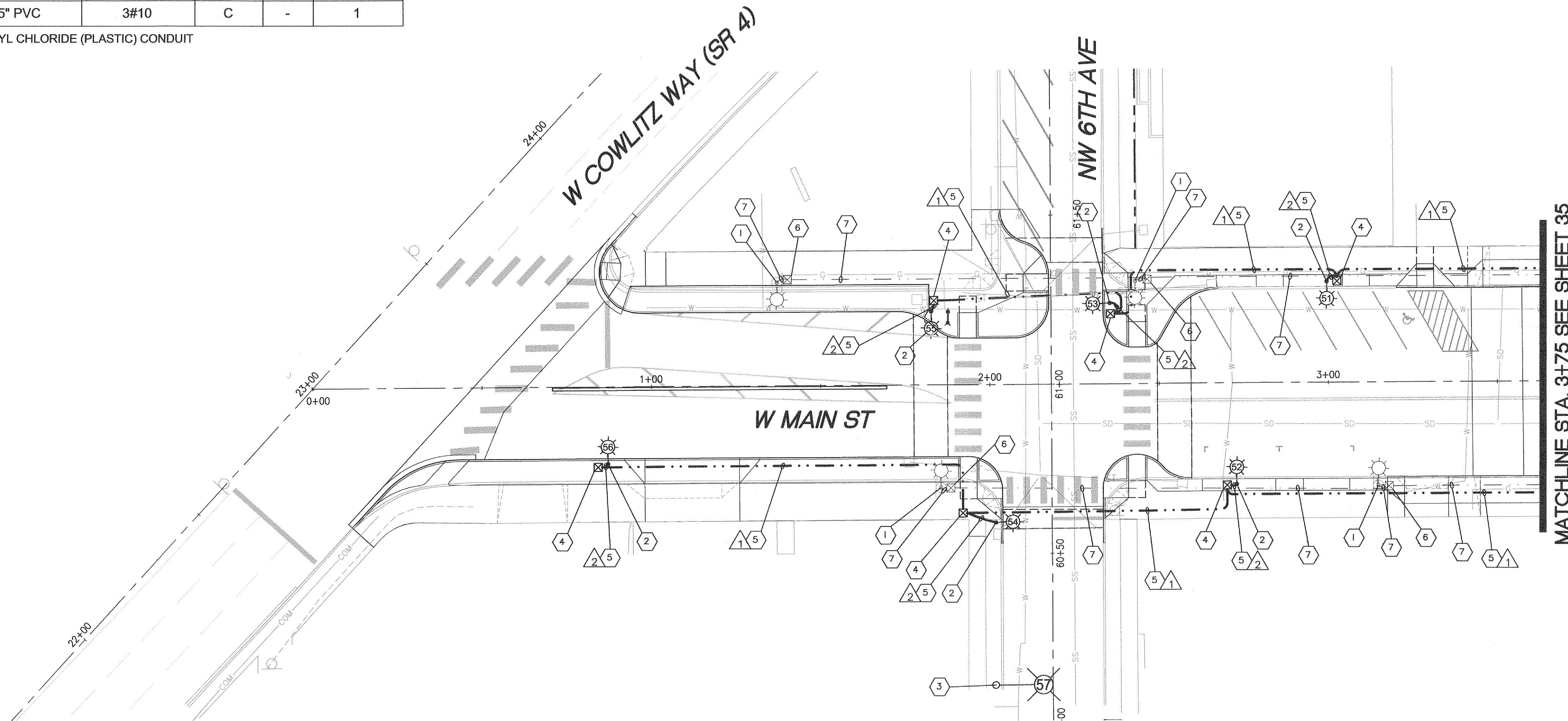
E xp. 10-25-16

REVISION	DATE	DESCRIPTION	BY
JOB No.	13564E	WEST MAIN STREET REVITALIZATION PROJECT PAVEMENT PLAN STA 0+00 TO STA 4+15	
Designed By:	MAK		
Drawn By:	NAR		
Checked By:	KMA	CITY OF KELSO PUBLIC WORKS DEPARTMENT 203 S. PACIFIC AVE. SUITE 205 KELSO, WA 98626	
DATE:	10/30/2015		
SCALE:	AS SHOWN		
DWG NO.:	R01	SHEET NUMBER 33 of 57	

LIGHTING WIRING SCHEDULE

RUN NO.	ENCLOSURE OR ATTACHMENT	ILLUMINATION CONDUCTORS	CIRCUIT	PULL LINE	#12 TRACE WIRE
1	2" PVC	3#8	C	1	1
2	1.5" PVC	3#10	C	-	1

PVC = RIGID POLYVINYL CHLORIDE (PLASTIC) CONDUIT

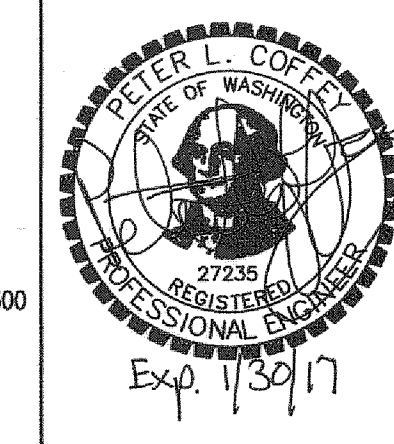
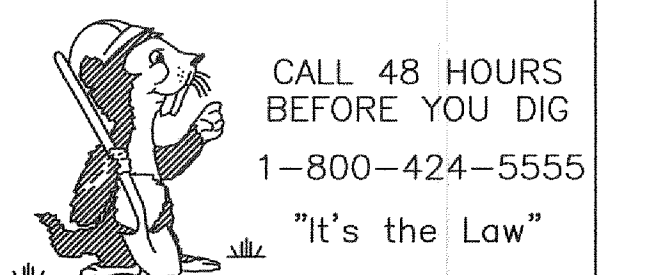
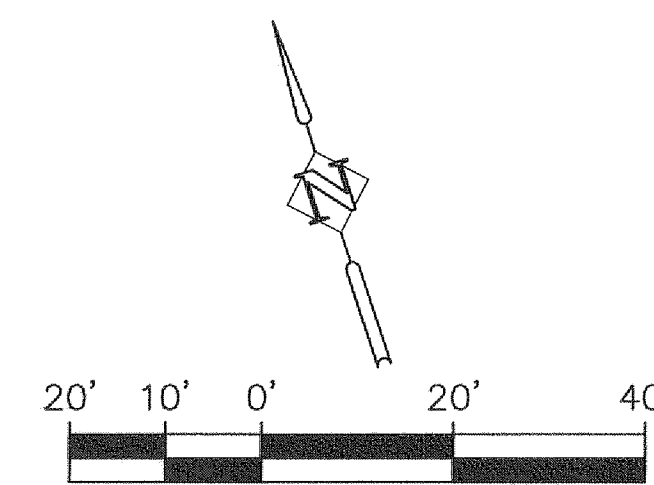


CONSTRUCTION NOTES

- 1 REMOVE EXISTING STREET LIGHT POLE AND FOUNDATION.
- 2 FURNISH AND INSTALL NEW ORNAMENTAL STREET LIGHT POLE AND PENDANT LUMINAIRE ON NEW FOUNDATION. SEE SHEET 36 FOR DETAILS. SEE SHEET 37 FOR LIGHTING SCHEDULE.
- 3 INSTALL LUMINAIRE ARM AND COBRAHEAD LUMINAIRE ON EXISTING WOOD UTILITY POLE. WORK TO BE COMPLETED BY COWLITZ PUD.
- 4 FURNISH AND INSTALL TYPE 1 JUNCTION BOX. SEE WSDOT STANDARD PLAN J-40.10-03.
- 5 FURNISH AND INSTALL LIGHTING CONDUIT. SEE LIGHTING WIRING SCHEDULE ON THIS SHEET.
- 6 REMOVE EXISTING STREET LIGHTING JUNCTION BOX.
- 7 REMOVE EXISTING WIRING AND ABANDON EXISTING CONDUIT.

LEGEND

- EXISTING JUNCTION BOX
- WSDOT TYPE 1 JUNCTION BOX
- WSDOT TYPE 2 JUNCTION BOX
- PROPOSED SERVICE CABINET
- PROPOSED PENDANT LIGHT POLE NUMBER (N). SEE LIGHTING SCHEDULE ON SHEET 37.
- EXISTING STREET LIGHT POLE.
- PROPOSED COBRA HEAD LIGHT POLE NUMBER (N). SEE LIGHTING SCHEDULE ON SHEET 37.
- CONDUIT & CONDUCTOR



REVISION	DATE	DESCRIPTION	BY
JOB No.	13564E		
Designed By:	KAS		
Drawn By:	DKS CAD		
Checked By:	PLC		
DATE:	2/5/2016		
SCALE:	AS SHOWN		
DWG NO.:	IL01		

WEST MAIN STREET REVITALIZATION PROJECT
ILLUMINATION PLANS
W. Cowlitz Way/W. Main St.

CITY OF KELSO
 PUBLIC WORKS DEPARTMENT
 203 S. PACIFIC AVE. SUITE 205
 KELSO, WA 98626

SHEET NUMBER
34 of 57

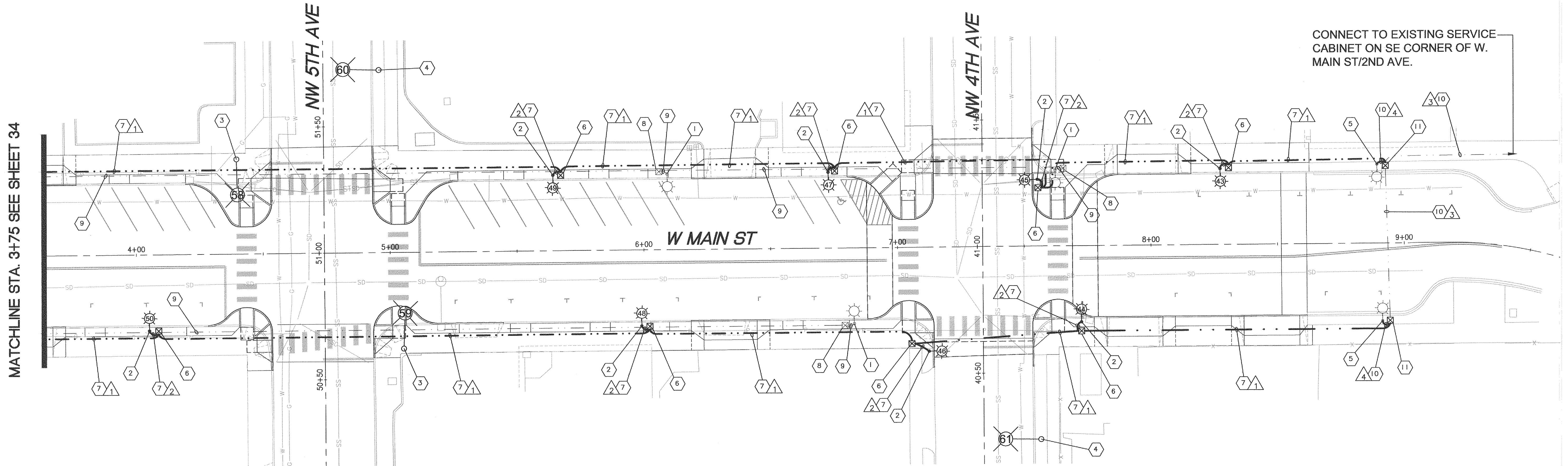
X:\Projects\2015\15095-000 (Kelso W. Main St. Revitalization)\ACAD\IL-01.dwg

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LIGHTING WIRING SCHEDULE

RUN NO.	ENCLOSURE OR ATTACHMENT	ILLUMINATION CONDUCTORS	CIRCUIT	PULL LINE	#12 TRACE WIRE
1	2" PVC	3#8	C	1	1
2	1.5" PVC	3#10	C	-	1
3	2" PVC (EX)	3#8 (EX)	C (EX)	1 (EX)	1 (EX)
4	1" PVC (EX)	3#10 (EX)	C (EX)	-	1 (EX)

PVC = RIGID POLYVINYL CHLORIDE (PLASTIC) CONDUIT

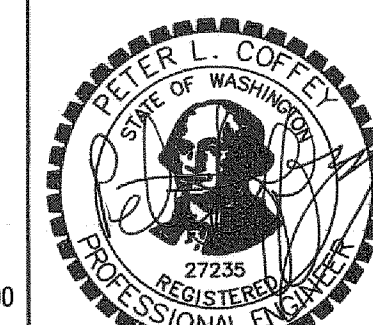
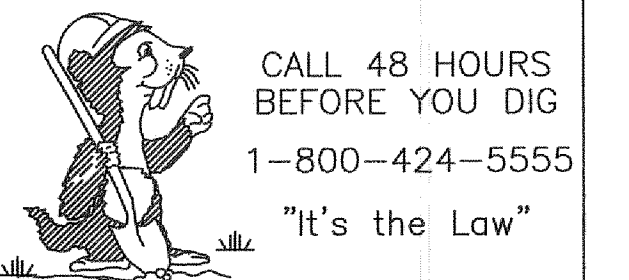
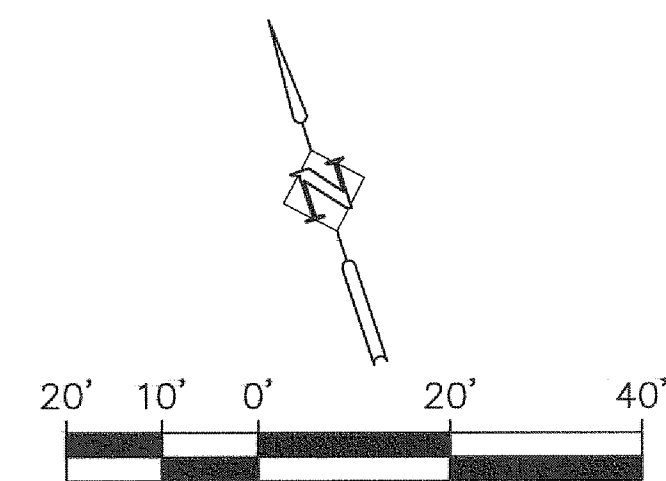


CONSTRUCTION NOTES

- 1 REMOVE EXISTING STREET LIGHT POLE AND FOUNDATION
- 2 FURNISH AND INSTALL NEW ORNAMENTAL STREET LIGHT POLE AND PENDANT LUMINAIRE ON NEW FOUNDATION. SEE SHEET 36 FOR DETAILS. SEE SHEET 37 FOR LIGHTING SCHEDULE.
- 3 REMOVE EXISTING LUMINAIRE ON TRAFFIC SIGNAL MAST ARM POLE AND INSTALL NEW LED FIXTURE AS INDICATED ON LIGHTING SCHEDULE (SEE SHEET 37).
- 4 INSTALL LUMINAIRE ARM AND COBRAHEAD LUMINAIRE ON EXISTING WOOD UTILITY POLE. WORK TO BE COMPLETED BY COWLITZ PUD.
- 5 MAINTAIN AND PROTECT EXISTING ORNAMENTAL STREET LIGHT POLE AND PENDANT LUMINAIRE ON NEW FOUNDATION.
- 6 FURNISH AND INSTALL TYPE 1 JUNCTION BOX. SEE WSDOT STANDARD PLAN J-40.10-03.
- 7 FURNISH AND INSTALL LIGHTING CONDUIT. SEE LIGHTING WIRING SCHEDULE ON THIS SHEET.
- 8 REMOVE EXISTING STREET LIGHTING JUNCTION BOX.
- 9 REMOVE EXISTING WIRING AND ABANDON EXISTING CONDUIT.
- 10 MAINTAIN AND PROTECT EXISTING CONDUIT. SEE LIGHTING WIRING SCHEDULE ON THIS SHEET.
- 11 REMOVE EXISTING JUNCTION BOX AND INSTALL NEW TYPE 1 JUNCTION BOX. MAINTAIN AND PROTECT ALL EXISTING WIRING AND CONDUIT SWEEPS IN EXISTING JUNCTION BOX. SEE WSDOT STANDARD PLAN J-40.10-03.

LEGEND

- ☒ EXISTING JUNCTION BOX
- ☒ WSDOT TYPE 1 JUNCTION BOX
- ☒ WSDOT TYPE 2 JUNCTION BOX
- ☒ PROPOSED SERVICE CABINET
- ☒ PROPOSED PENDANT LIGHT POLE NUMBER (N). SEE LIGHTING SCHEDULE ON SHEET 37.
- ☒ EXISTING STREET LIGHT POLE.
- ☒ PROPOSED COBRA HEAD LIGHT POLE NUMBER (N). SEE LIGHTING SCHEDULE ON SHEET 37.
- — — CONDUIT & CONDUCTOR



REVISION	DATE	DESCRIPTION	BY
JOB No.	13564E		
Designed By:	KAS		
Drawn By:	DKS CAD		
Checked By:	PLC		
DATE:	2/5/2016		
SCALE:	AS SHOWN		
DWG NO.:	IL02		

**WEST MAIN STREET
REVITALIZATION PROJECT
ILLUMINATION PLANS
W. Main St.**

CITY OF KELSO
PUBLIC WORKS DEPARTMENT
203 S. PACIFIC AVE. SUITE 205
KELSO, WA 98626

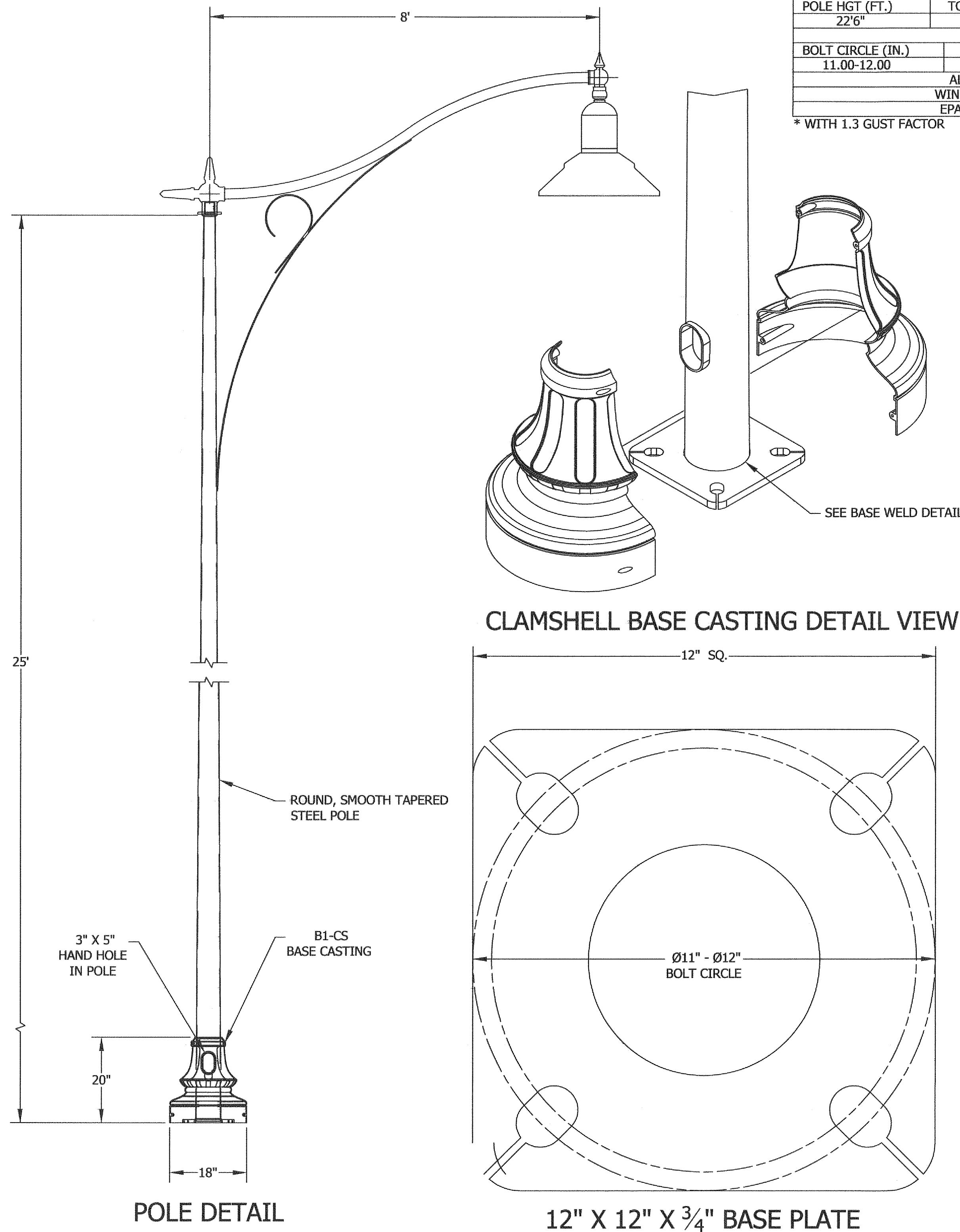
SHEET
NUMBER
35 of 57

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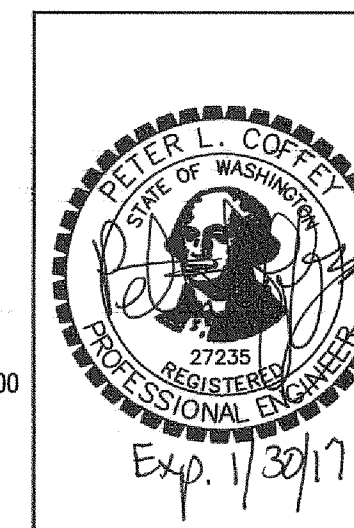
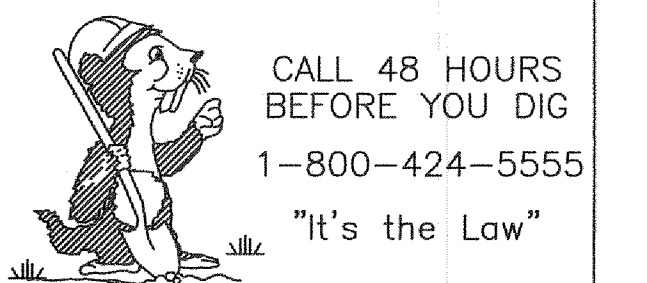
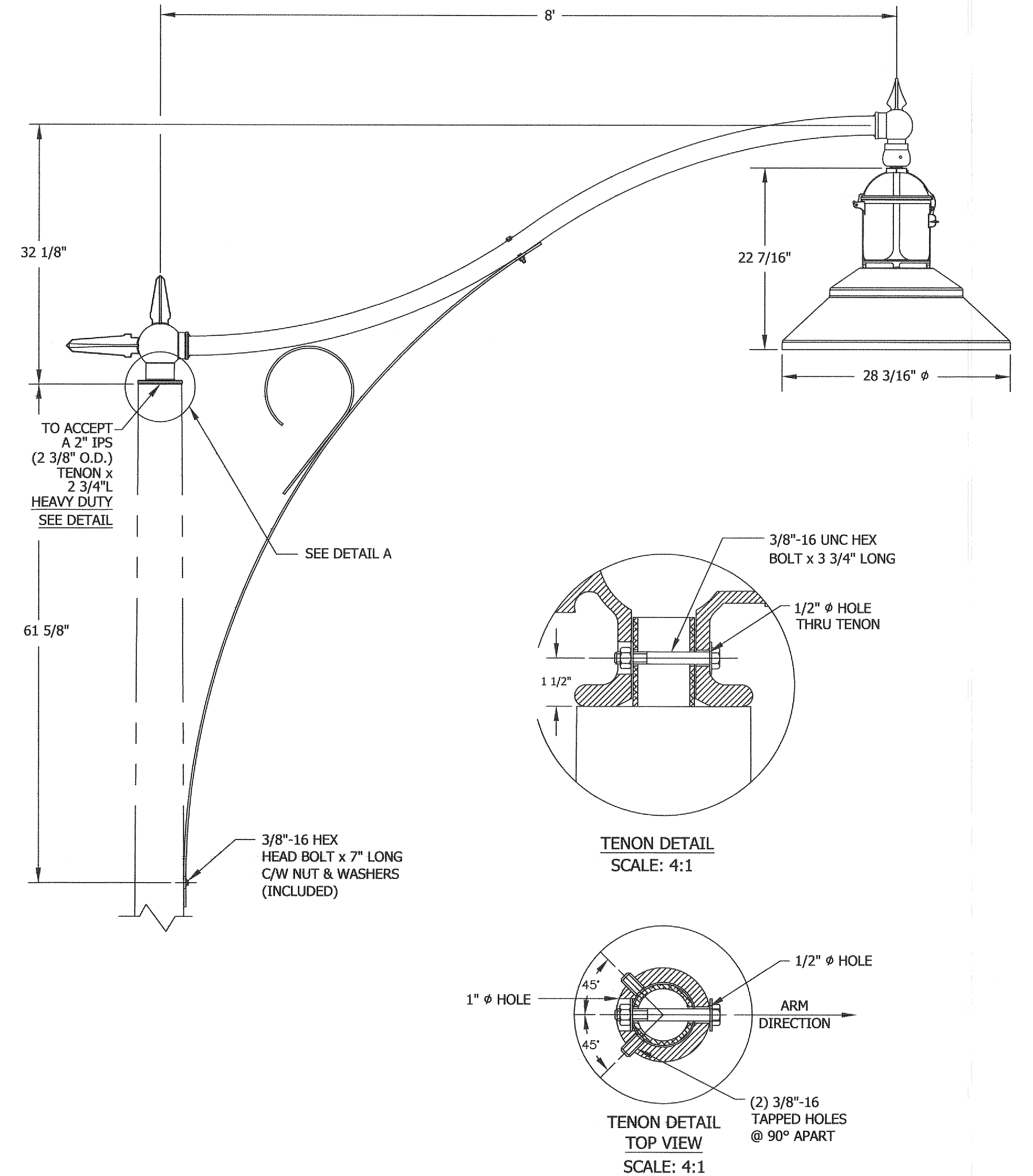
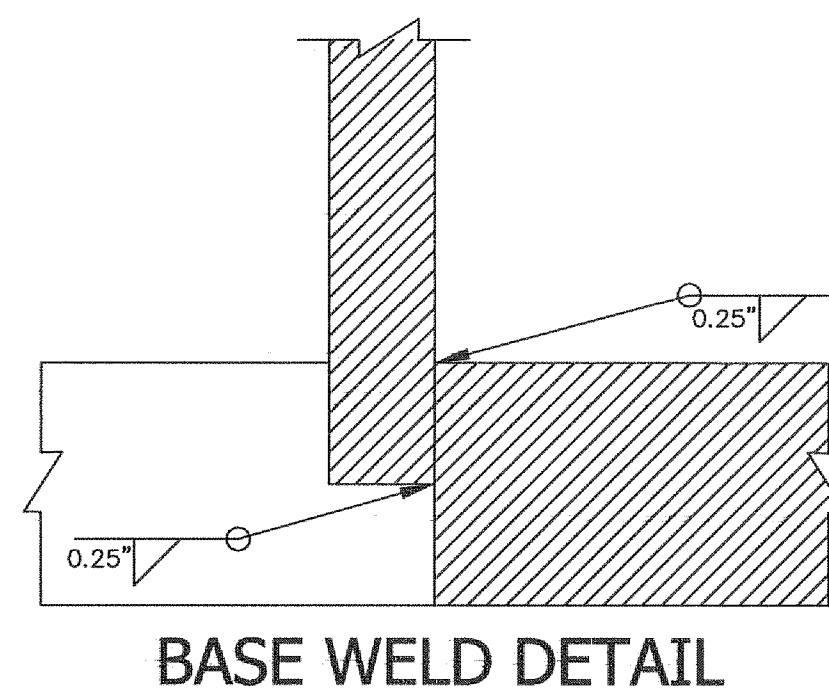
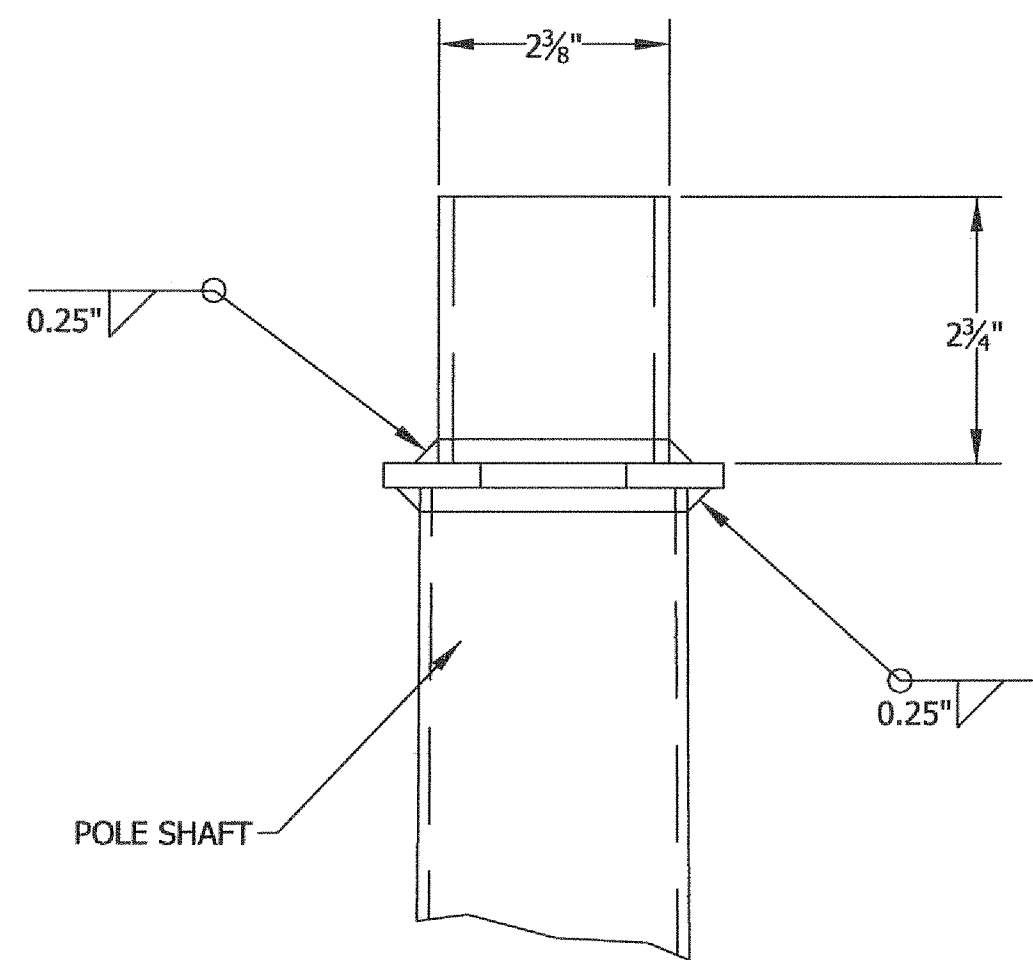
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POLE SHAFT SPECIFICATIONS				
1.	SHAFTS ARE FABRICATED FROM A WELDABLE GRADE, HOT ROLLED COMMERCIAL QUALITY CARBON STEEL (ASTM A595 GR. A) WITH A GUARANTEED MINIMUM YIELD STRENGTH OF 55,000 PSI AFTER FABRICATION. IT IS A ONE-PIECE CONSTRUCTION WITH A FULL-LENGTH, LONGITUDINAL WELD. THE WHOLE TAPERS AT A RATE OF 0.14" PER FT.			
2.	BASE PLATES ARE CONSTRUCTED OF A STRUCTURAL QUALITY HOT ROLLED CARBON STEEL PLATE (ASTM A36) WITH A GUARANTEED MINIMUM YIELD STRENGTH OF 36,000 P.S.I.			
3.	POLES SHALL BE POLYESTER POWDER COAT FINISH IN A STANDARDS COLOR.			
POLE DIMENSIONS				
POLE HGT. (FT.)	TOP DIA. (IN.)	BOTTOM DIA. (IN.)	GAGE	MTG. HGT. (FT.)
22'6"	2.75	5.90	11 GAGE	22'6"
BASE PLATE DIMENSIONS				
BOLT CIRCLE (IN.)	BASE PLATE DIM. (IN.)	BOLT HOLE (IN.)	PLATE THK. (IN.)	
11.00-12.00	12.00 SQ	1.25	.75	
ALLOWABLE WIND LOADING (SQ. FT.) PER ARM				
WIND* EPA			100 MPH 2.0	

* WITH 1.3 GUST FACTOR



NOTE: SEE SPECIAL PROVISIONS FOR POLE, ARM, AND LUMINAIRE SPECIFICATIONS.



REVISION	DATE	DESCRIPTION	BY
JOB No.	13564E	WEST MAIN STREET REVITALIZATION PROJECT ILLUMINATION DETAILS	
Designed By:	KAS		
Drawn By:	DKS CAD		
Checked By:	PLC		
DATE:	2/5/2016	CITY OF KELSO PUBLIC WORKS DEPARTMENT 203 S. PACIFIC AVE. SUITE 205 KELSO, WA 98626	
SCALE:	AS SHOWN		
DWG NO.:	IL03		

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LIGHTING SCHEDULE

LUMINAIRE NUMBER	LOCATION		LUMINAIRE				POLE TYPE	CIRCUIT	NOTES
	STATION*	OFFSET** (FT)	TYPE-DISTRIBUTION-WATTAGE	LUMEN OUTPUT	ARM LENGTH (FT)	MOUNTING HEIGHT (FT)			
43	8+28	2.0	LED - TYPE 3 - 60	6211	8	25	ORNAMENTAL STREET LIGHT POLE AND PENDANT LUMINAIRE	C	
44	7+72	3.8	LED - TYPE 3 - 60	6211	8	25	ORNAMENTAL STREET LIGHT POLE AND PENDANT LUMINAIRE	C	
45	41+26 "NW 4TH AVE"	2.0	LED - TYPE 3 - 60	6211	8	25	ORNAMENTAL STREET LIGHT POLE AND PENDANT LUMINAIRE	C	
46	40+59 "NW 4TH AVE"	2.0	LED - TYPE 3 - 60	6211	8	25	ORNAMENTAL STREET LIGHT POLE AND PENDANT LUMINAIRE	C	
47	6+73	2.0	LED - TYPE 3 - 60	6211	8	25	ORNAMENTAL STREET LIGHT POLE AND PENDANT LUMINAIRE	C	
48	5+99	2.0	LED - TYPE 3 - 60	6211	8	25	ORNAMENTAL STREET LIGHT POLE AND PENDANT LUMINAIRE	C	
49	5+64	2.0	LED - TYPE 3 - 60	6211	8	25	ORNAMENTAL STREET LIGHT POLE AND PENDANT LUMINAIRE	C	
50	4+05	2.0	LED - TYPE 3 - 60	6211	8	25	ORNAMENTAL STREET LIGHT POLE AND PENDANT LUMINAIRE	C	
51	3+00	2.0	LED - TYPE 3 - 60	6211	8	25	ORNAMENTAL STREET LIGHT POLE AND PENDANT LUMINAIRE	C	
52	2+73	2.0	LED - TYPE 3 - 60	6211	8	25	ORNAMENTAL STREET LIGHT POLE AND PENDANT LUMINAIRE	C	
53	61+24 "NW 6TH AVE"	2.0	LED - TYPE 3 - 60	6211	8	25	ORNAMENTAL STREET LIGHT POLE AND PENDANT LUMINAIRE	C	
54	60+60 "NW 6TH AVE"	2.0	LED - TYPE 3 - 60	6211	8	25	ORNAMENTAL STREET LIGHT POLE AND PENDANT LUMINAIRE	C	
55	1+83	3.8	LED - TYPE 3 - 60	6211	8	25	ORNAMENTAL STREET LIGHT POLE AND PENDANT LUMINAIRE	C	
56	0+87	2.0	LED - TYPE 3 - 60	6211	8	25	ORNAMENTAL STREET LIGHT POLE AND PENDANT LUMINAIRE	C	
57	EX	EX	LED - Type 2 - 101	10388	8	28	EXISTING WOOD UTILITY POLE	-	WORK TO BE COMPLETED BY COWLITZ PUD.
58	EX	EX	LED - Type 2 - 101	10388	EX (15)	EX (35)	EXISTING TRAFFIC SIGNAL POLE	-	SEE TRAFFIC SIGNAL PLAN.
59	EX	EX	LED - Type 2 - 101	10388	EX (15)	EX (35)	EXISTING TRAFFIC SIGNAL POLE	-	SEE TRAFFIC SIGNAL PLAN.
60	EX	EX	LED - Type 2 - 101	10388	8	28	EXISTING WOOD UTILITY POLE	-	WORK TO BE COMPLETED BY COWLITZ PUD.
61	EX	EX	LED - Type 2 - 101	10388	8	28	EXISTING WOOD UTILITY POLE	-	WORK TO BE COMPLETED BY COWLITZ PUD.

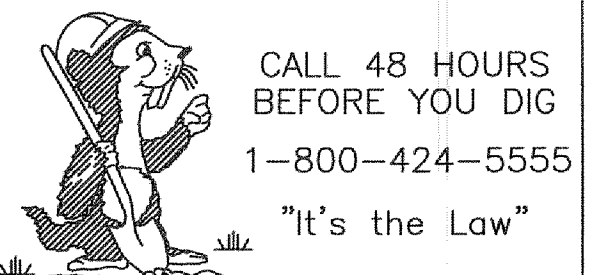
EX = EXISTING

*STATIONING ALONG W MAIN STREET UNLESS OTHERWISE SPECIFIED.

**OFFSET MEASURED FROM FACE OF CURB TO CENTER OF LIGHT POLE.

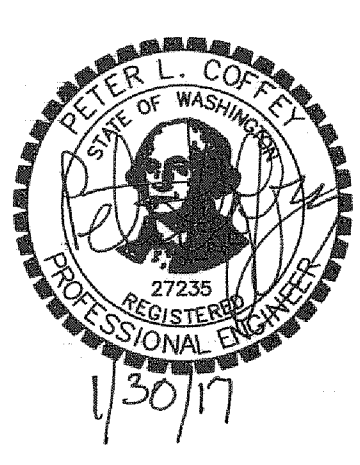
ORNAMENTAL STREET LIGHT POLE FOUNDATION

USE WSDOT STANDARD PLAN J28.30-3; FIXED BASE TYPE A WITH FOUR 54" ANCHOR BOLTS. SEE THE SPECIAL PROVISIONS FOR ADDITIONAL DETAILS.



X:\Projects\2015\IP15095-000 (Kelso W. Main St. Revitalization)\ACAD\IL-04.dwg

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REVISION	DATE	DESCRIPTION	BY
JOB No. 13564E			
Designed By: KAS			
Drawn By: DKS CAD			
Checked By: PLC			
DATE: 2/5/2016			
SCALE: AS SHOWN			
DWG NO.: IL04			

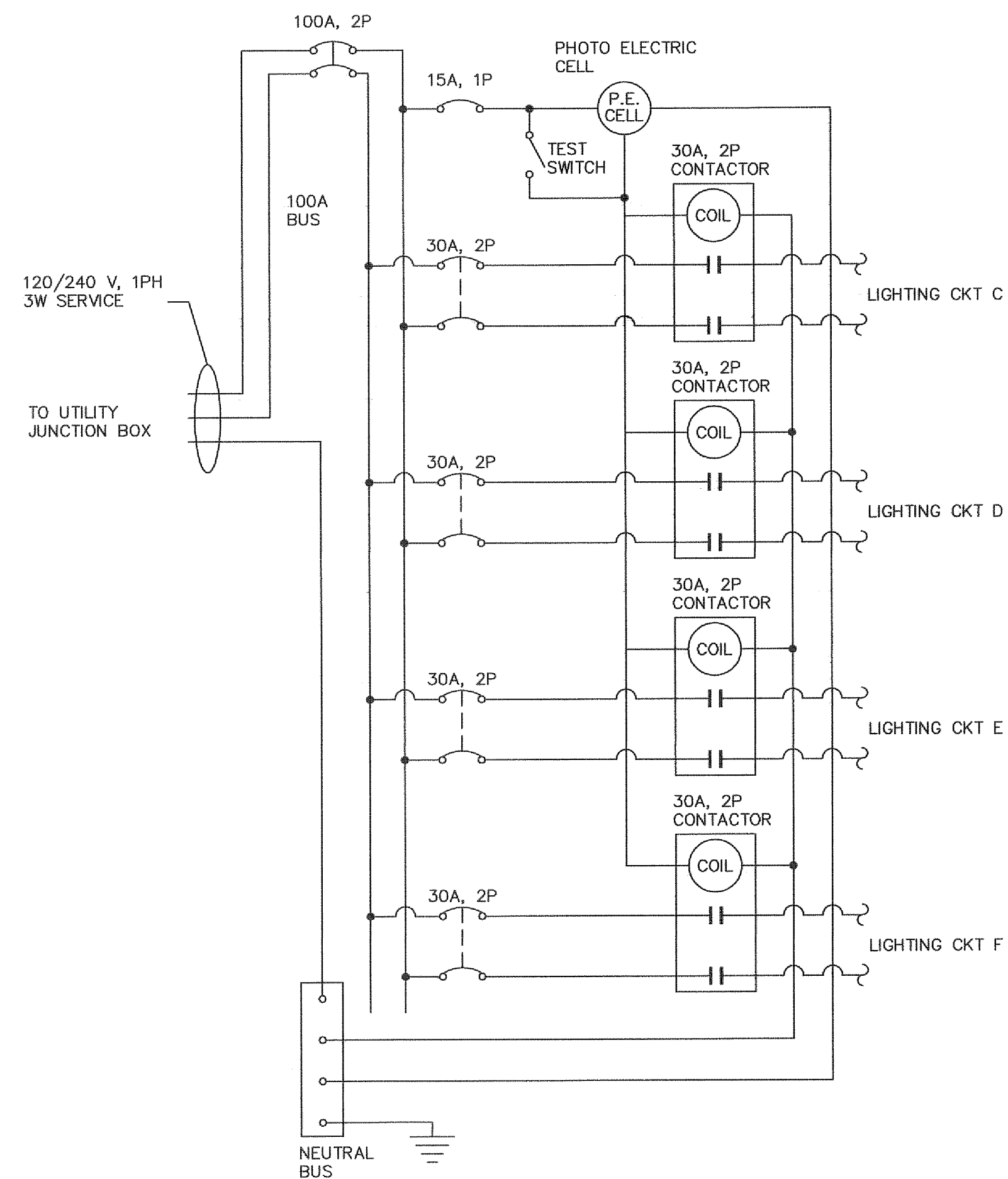
WEST MAIN STREET REVITALIZATION PROJECT

ILLUMINATION DETAILS

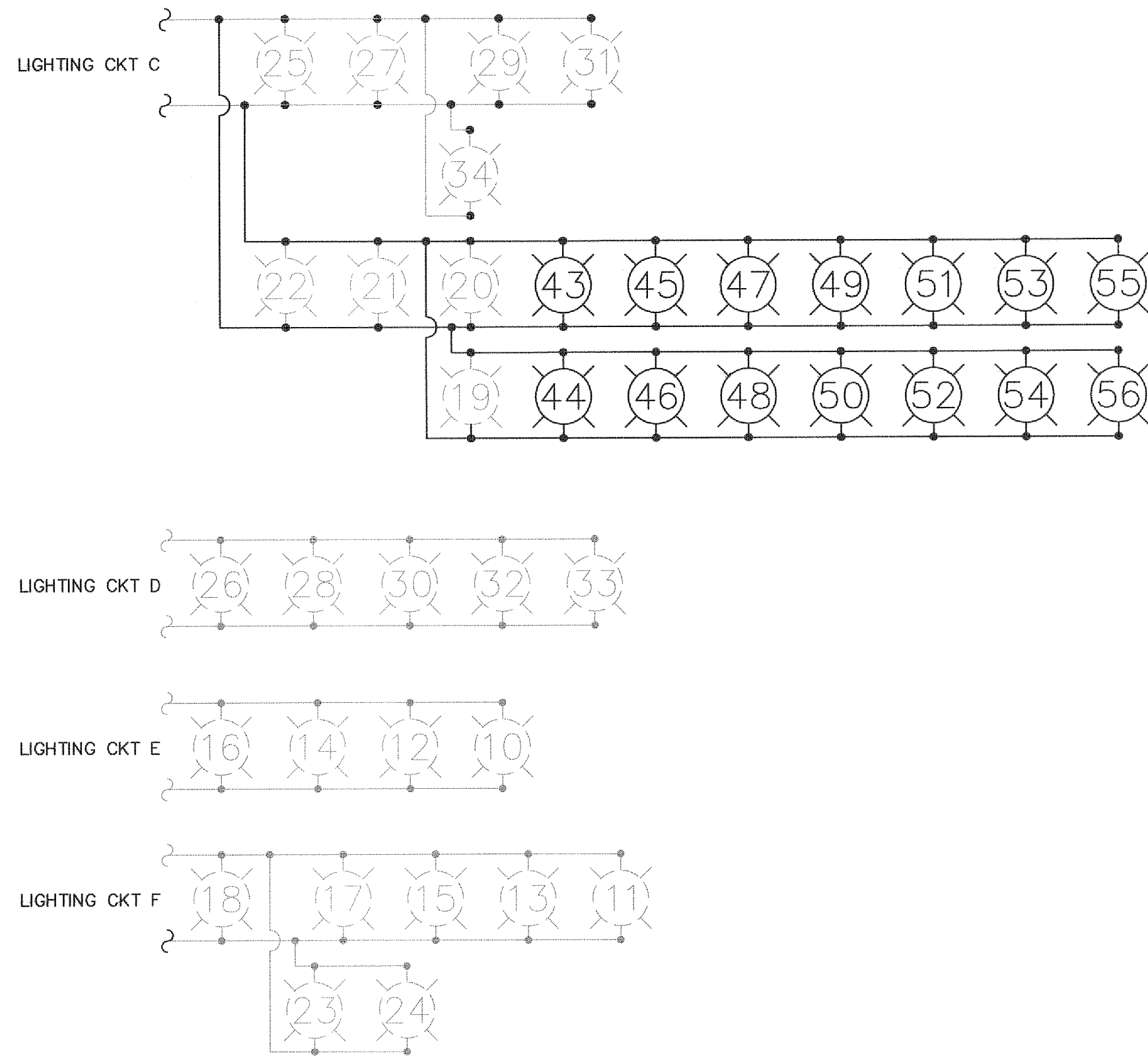
CITY OF KELSO
PUBLIC WORKS DEPARTMENT
203 S. PACIFIC AVE. SUITE 205
KELSO, WA 98626

SHEET NUMBER
37 of 57

X:\Projects\2015\15P15095-000 (Kelso W. Main St. Revitalization)\ACAD\IL-05.dwg

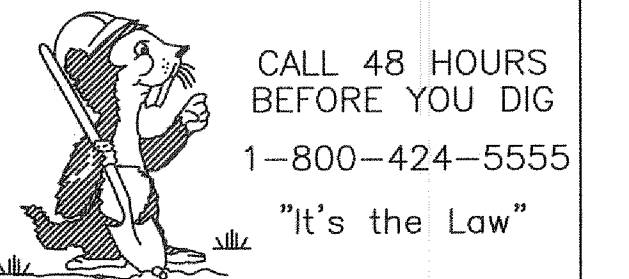


SCHEMATIC – EXISTING ROADWAY LIGHTING PANEL
(SE CORNER OF W. MAIN ST/2ND AVE)

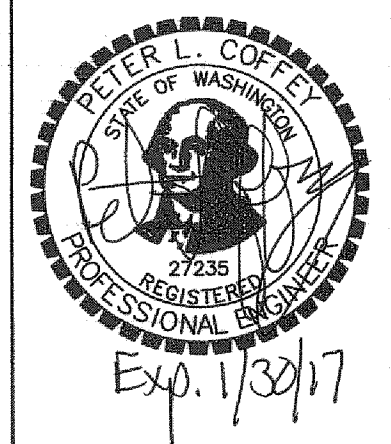


LEGEND
 = EXISTING STREET LIGHT
 = NEW STREET LIGHT
 xx = LIGHT POLE NUMBER

NOTE: EXISTING LIGHT POLES INSTALLED AS PART OF WEST MAIN STREET REALIGNMENT – PROJECT 1 JOB NO. 580504.



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REVISION	DATE	DESCRIPTION	BY
JOB No. 13564E			
Designed By: KAS		WEST MAIN STREET REVITALIZATION PROJECT <i>ILLUMINATION DETAILS</i>	
Drawn By: DKS CAD			
Checked By: PLC			
DATE: 2/5/2016			
SCALE: AS SHOWN			
DWG NO.: IL05			

CITY OF KELSO
 PUBLIC WORKS DEPARTMENT
 203 S. PACIFIC AVE. SUITE 205
 KELSO, WA 98626

SHEET NUMBER
 38 of 57

X:\Projects\2015\IP15095-000 (Kelso W. Main St. Revitalization)\ACAD\ILL-06.dwg

CONSTRUCTION SPECIFICATIONS

GENERAL

The following are to be used in conjunction with the Standard Specifications for Road, Bridge, and Municipal Construction by the Washington State Department of Transportation as adopted by the City of Longview/Kelso.

CONCRETE STREET LIGHT FOUNDATION

All concrete foundations shall be the size and configuration shown on the plans, except where, in the judgment of the Engineer, unstable soil conditions require enlargement of the foundation. Before placing the concrete, the Contractor shall block out around any other underground utilities that lie in the excavated base so that the concrete will not adhere to the utility line. Concrete base shall class 4000 and be troweled, brushed, edged, and finished in a workmanlike manner. Concrete shall be promptly cleaned from anchor bolts and conduits after placement. Anchor bolts for all poles shall be arranged so that the pole's bracket arm is perpendicular to the centerline of the adjacent roadway right-of-way. Street lights may be installed after a compressive test of 2,400 psi has been achieved.

All poles shall be installed on leveling nuts secured to the anchor bolts and with locking nuts on the top of the base flange. The side of the pole shaft opposite the load shall be plumbed by adjusting the leveling nuts or as otherwise directed by the Engineer. The space between the concrete base and the bottom of the pole flange shall be filled with dry pack mortar to completely fill the space under the flange and around the conduits and be neatly troweled to the contour of the pole flange. A plastic drain hose (1/2" diameter) shall be inserted through the mortar to provide drainage from the interior of the pole base and trimmed flush with the interior and exterior surface of the mortar. Dry pack mortar shall consist of a 1:3 mixture of cement and fine sand with just enough water so that the mixture will stick together on being molded into a ball by hand and will not exude free moisture when so pressed.

CONDUIT

All conduit shall be schedule 40 PVC except under driveways, and street crossings. These exceptions shall be rigid steel conduit and shall be a minimum of two inches in diameter. All elbows shall be rigid steel.

All underground conduit shall be installed a minimum of 24" below grade. In the driveway or roadway areas, electrical conduit should be installed by boring methods.

GROUNDING

All poles, metal conduits and cabinets in the same area covered by the same power service shall be made mechanically and electrically secure for a continuous grounding system in accordance with the Standard Specifications. Bonding jumpers shall be provided and installed by the Contractor in accordance with WSDOT Standard Plan J-9a to all #8 bare metal conduits in the junction box. Grounding of conduit and ground wire at the service point to the PUD service ground on the PUD power pole shall be accomplished as required under the National Electrical Code.

CATALOG CUTS

Prior to the beginning of construction, catalog cuts of the following items shall be submitted and approved by the City Traffic Engineer. 1. Street Light Standards 2. Luminaires 3. Junction Boxes 4. Wye and In-Line Connectors 5. Service Cabinet 6. In-Line Fuse Holders 7. Conduit 8. Wire.

CRITICAL INSPECTION POINTS


The illumination system will be inspected by the traffic Department and Electrical Inspector. The telephone numbers for the City of Longview inspectors are:

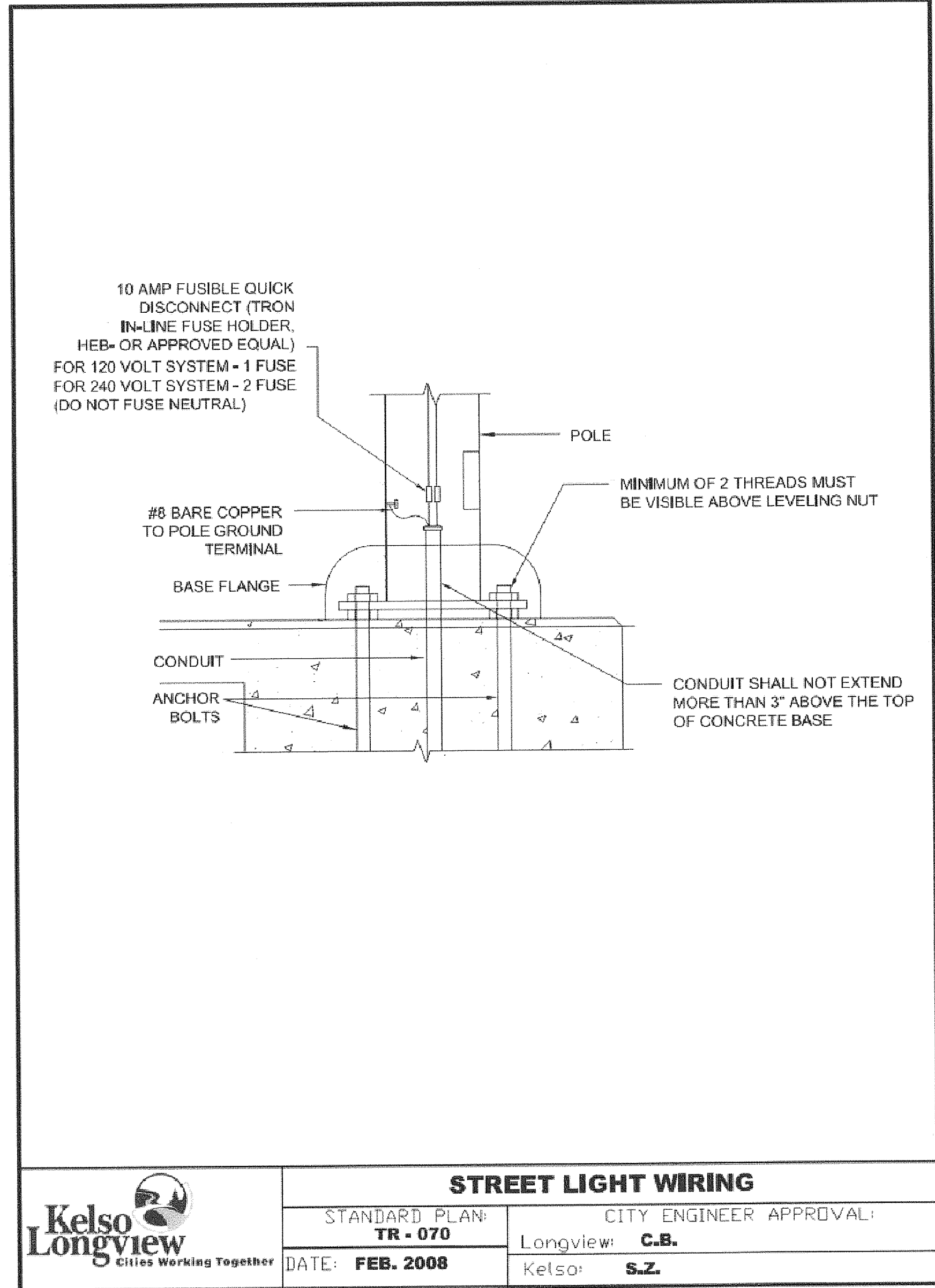
Traffic Inspection: (360) 44-5642, Electrical Inspection: (360) 442-5086.


The electrical inspector shall be responsible for inspecting all service related items.

The following are critical items that are to be inspected by the Traffic inspector:

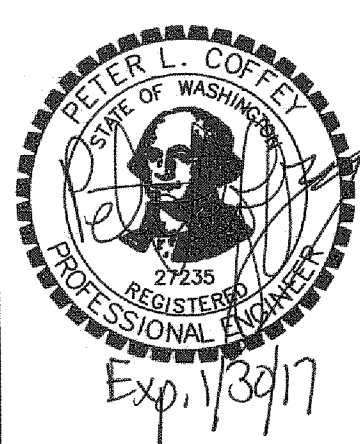

1. Conduit Depth: No trench shall be filled without the depth of conduit verified.
2. Pole Locations: The pole locations shall be approved by the traffic department prior to excavation of the pole bases.
3. Pole Bases: The pole bases shall be inspected and approved prior to pouring of the concrete.
4. Wiring: The wiring, splices, grounding and fusing shall be approved by the traffic inspector.

	STREET LIGHTING - CONSTRUCTION NOTES	
	STANDARD PLAN: TR-020	CITY ENGINEER APPROVAL: Longview: C.B.
	DATE: FEB. 2008	Kelso: S.Z.



	STREET LIGHT WIRING	
	STANDARD PLAN: TR - 070	CITY ENGINEER APPROVAL: Longview: C.B.
	DATE: FEB. 2008	Kelso: S.Z.



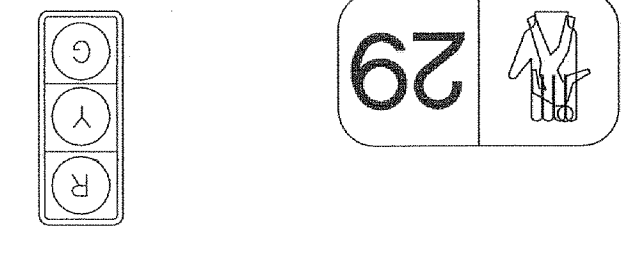
	REVISION	DATE	DESCRIPTION	BY
	JOB No.	13564E		
	Designed By:	KAS		
	Drawn By:	DKS CAD		
	Checked By:	PLC		
DATE:	2/5/2016			
SCALE:	AS SHOWN			
DWG NO.:	IL06			
WEST MAIN STREET REVITALIZATION PROJECT CITY OF KELSO ILLUMINATION STANDARD PLANS				SHEET NUMBER 39 of 57
 CITY OF KELSO PUBLIC WORKS DEPARTMENT 203 S. PACIFIC AVE. SUITE 205 KELSO, WA 98626				

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NO.	RACEWAY	CONDUIT	SIZE
1	3" RMC (EX)		4
2	1.5" PVC		1
3	1.5" PVC		2
4	3" RMC (EX)		2
5	2" PVC		8
6	1.5" PVC		6
7	3" RMC (EX)		4
8	3" RMC (EX)		1
9	3" RMC (EX)		2
10	NOT USED		
11	1.5" PVC		4
12	3" RMC (EX)		

WIRING SCHEDULE LEGEND:

PB = POLE AND BRACKET CABLE
 RGS = RIGID GALVANIZED STEEL
 RMC = RIGID METALLIC CONDUIT
 C = MULTI-CONDUCTOR CABLE WITH (X) CONDUCTORS
 CS = MULTI-CONDUCTOR CABLE HAVING STRANDED COPPER CONDUCTORS, ALUMINUM/POLYESTER FOLI INSULATION
 PVC = POLYVINYL CHLORIDE
 NOTE: PROTECT EXISTING WIRING IN PLACE EXCEPT AS NOTED.
 Pedestrian Signal Heads Existing: 28,29,48,49,68,69,88,89
 Vehicle Signal Heads Existing: 21,22,41,42,61,62,81,82



SIGNAL HEAD DISPLAYS

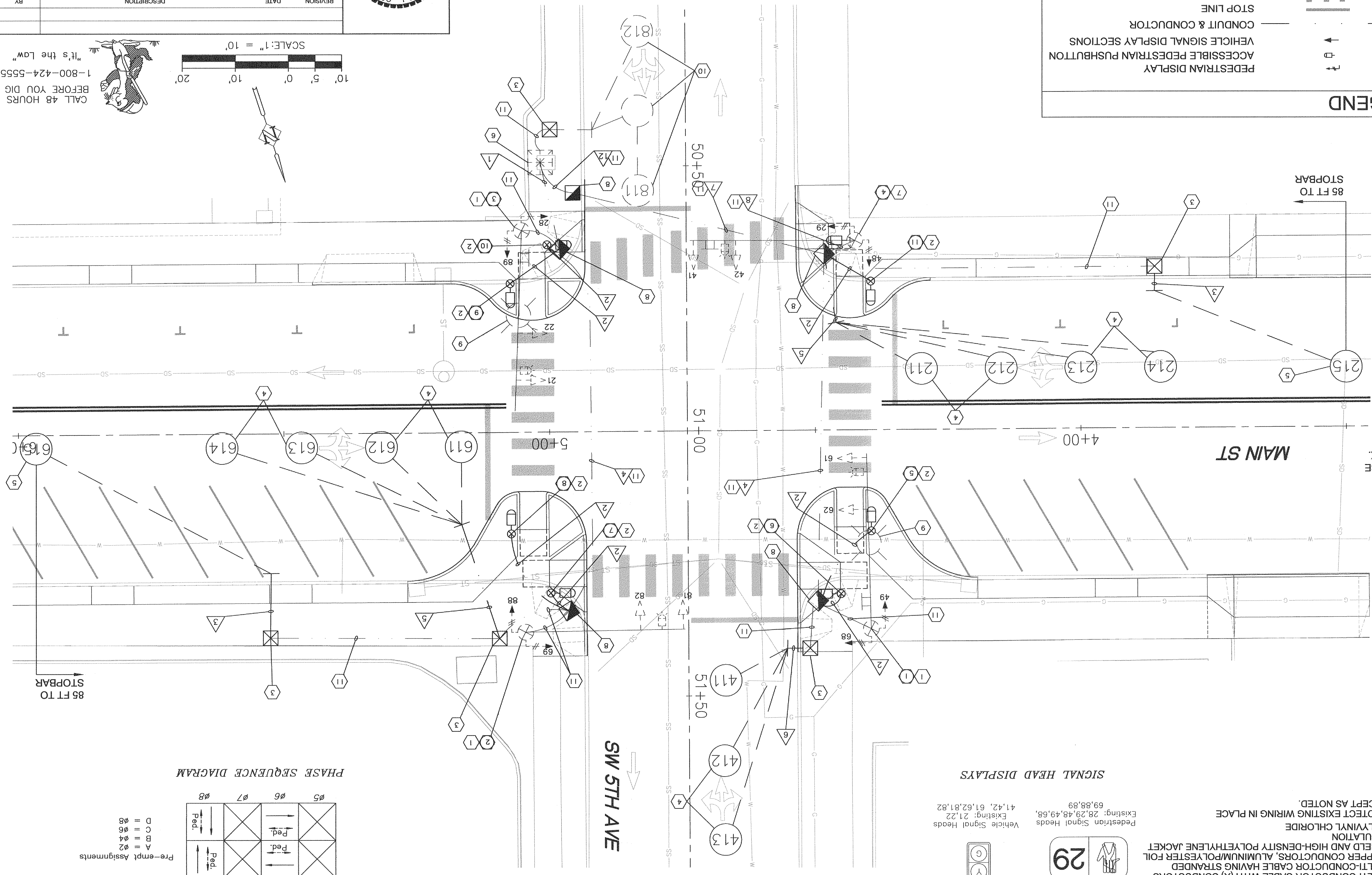
- CONSTRUCTION NOTES:**
- PROTECT IN PLACE EXISTING SIGNAL POLE, MAST ARM, PEDESTRIAN SIGNS, AND OTHER ATTACHMENTS. REMOVE AND SALVAGE BOTH EXISTING PEDESTRIAN PUSH BUTTONS PER SPECIFICATIONS. (PLUG HOLES).
 - CONSTRUCT FOUNDATION AND INSTALL ACCESSIBLE PEDESTRIAN PUSHBUTTON POST (STEEL) PER STANDARD PLAN J-20.10-03. PROVIDE AND INSTALL ONE POLARA 2-WIRE, NAVIGATOR MODEL ACCESSIBLE PEDESTRIAN PUSHBUTTON WITH SIGN ON POLE. INSTALL NEW 2cs BETWEEN PUSHBUTTON AND CONTROLLER CABINET.
 - REMOVE EXISTING JUNCTION BOX AND REPLACE WITH NEW TYPE 1 JUNCTION BOX. SEE WSDOT STANDARD PLAN J-40.10-03.
 - INSTALL NEW TYPE 3 STOP BAR DETECTOR LOOP PER WSDOT STANDARD PLANS J-50.12-00 AND J-50.15-00. SPLICE HOMERUNS TO EXISTING CONDUCTORS IN JUNCTION BOX.
 - INSTALL NEW TYPE 3 ADVANCED DETECTOR LOOP PER WSDOT STANDARD PLANS J-50.12-00 AND J-50.15-00. SPLICE HOMERUNS TO EXISTING CONDUCTORS IN JUNCTION BOX.
 - PROTECT IN PLACE EXISTING CONTROLLER CABINET AND SERVICE CABINET. INSTALL POLARA EZ COMMUNICATION CENTRAL CONTROL UNIT IN EXISTING TRAFFIC SIGNAL CABINET.
 - PROTECT IN PLACE EXISTING SIGNAL POLE AND MAST ARM. SALVAGE EXISTING PEDESTRIAN PUSH BUTTONS PER SPECIFICATIONS. PROVIDE AND INSTALL ONE POLARA 2-WIRE, NAVIGATOR MODEL ACCESSIBLE PEDESTRIAN PUSHBUTTON WITH SIGN ON POLE. CONNECT TO EXISTING 2cs. (PLUG HOLES).
 - REMOVE EXISTING JUNCTION BOX AND REPLACE WITH NEW TYPE 2 JUNCTION BOX. SEE WSDOT STANDARD PLAN J-40.10-03.
 - SEE LIGHTING SCHEDULE. SEE SHEET 37 AND LIGHTING PLAN SHEET 35. FOR NEW LUMINAIRE TYPE MAINTAIN EXISTING TRAFFIC SIGNAL POLE. LUMINAIRE ARM, AND WIRING.
 - MAINTAIN AND PROTECT EXISTING LOOPS.
 - MAINTAIN AND PROTECT EXISTING CONDUIT AND WIRING.

LEGEND

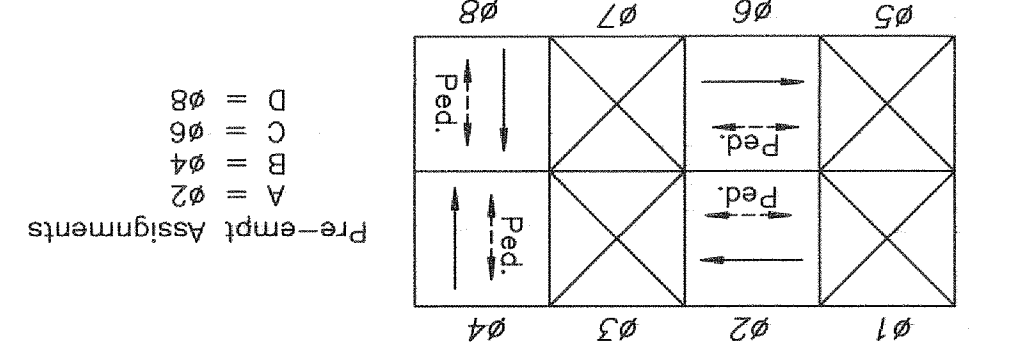
- ACCESSIBLE PEDESTRIAN PUSHBUTTON POST (STEEL)
- UTILITY POLE
- ANCHOR
- CONTROLLER CABINET
- SERVICE PANEL
- TYPE 1 JUNCTION BOX
- TYPE 2 JUNCTION BOX
- PREEMPTION DETECTOR/INDICATOR
- TYPE 3 DETECTOR LOOP
- ACCESSIBLE PEDESTRIAN PUSHBUTTON
- VEHICLE SIGNAL DISPLAY SECTIONS
- CONDUIT & CONDUCTOR
- STOP LINE
- CROSSWALK
- CONSTRUCTION NOTE
- WIRE NOTE
- SIGNAL STANDARD NOTE

GENERAL NOTES:

- ALL PEDESTRIAN PUSHBUTTONS SHALL BE ACCESSIBLE AND USE METAL POLE INSTALLATION, SEE STANDARD PLAN J-20.26.



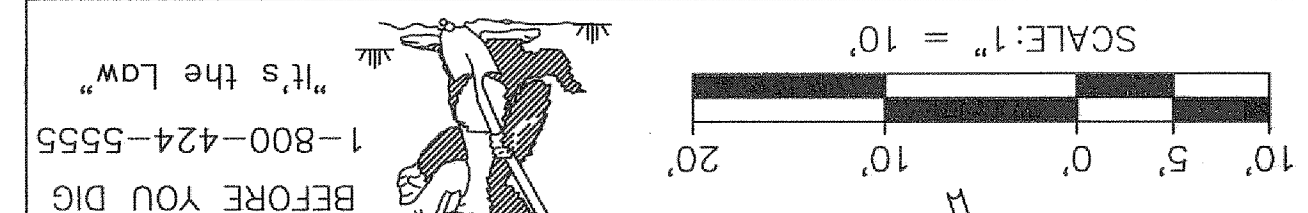
PHASE SEQUENCE DIAGRAM



CITY OF KELSO
 PUBLIC WORKS DEPARTMENT
 203 S. PACIFIC AVE., SUITE 205
 KELSO, WA 98626
 1-800-424-5555
 CALL 48 HOURS BEFORE YOU DIG
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JOB NO. 13564E
 DESIGNED BY: CAG
 DRAWN BY: DKS CAD
 CHECKED BY: PLC
 DATE: 2/5/2016
 SCALE: AS SHOWN
 DWG NO.: S01

WEST MAIN STREET REVITALIZATION PROJECT
 TRAFFIC SIGNAL PLANS
 Main St/5th Ave



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PORTLAND REGIONAL BOARD OF ELECTRICAL ENGINEERS
 LICENSE NO. 27236
 EXPIRES 12/31/17

SHEET NUMBER 40 of 57
 REVISION DATE DESCRIPTION
 BY

WIRING SCHEDULE

RUN NO.	RACEWAY CONDUIT SIZE	2cs LOOPS	2cs PED. BUTTON	#14 LOOP WIRES
1	3" RMC (EX)	3	3	
2	2.5" RMC (EX)	3	3	
3	1.5" PVC		2	
4	2" PVC	3		
5	1.5" PVC	1		
6	2" PVC			12
7	1.5" PVC			2
8	1.25" PVC (EX)		1	

WIRING SCHEDULE LEGEND:

PB = POLE AND BRACKET CABLE
 RMC = RIGID METALIC CONDUIT
 C = MULTI-CONDUCTOR CABLE WITH (X) CONDUCTORS
 CS = MULTI-CONDUCTOR CABLE HAVING STRANDED COPPER CONDUCTORS, ALUMINUM/POLYESTER FOIL SHIELD AND HIGH-DENSITY POLYETHYLENE JACKET INSULATION
 PVC = POLYVINYL CHLORIDE
 RX = REMOVE EXISTING (N) WIRES SHOWN
 NOTE: PROTECT EXISTING WIRING IN PLACE EXCEPT AS NOTED.

LEGEND

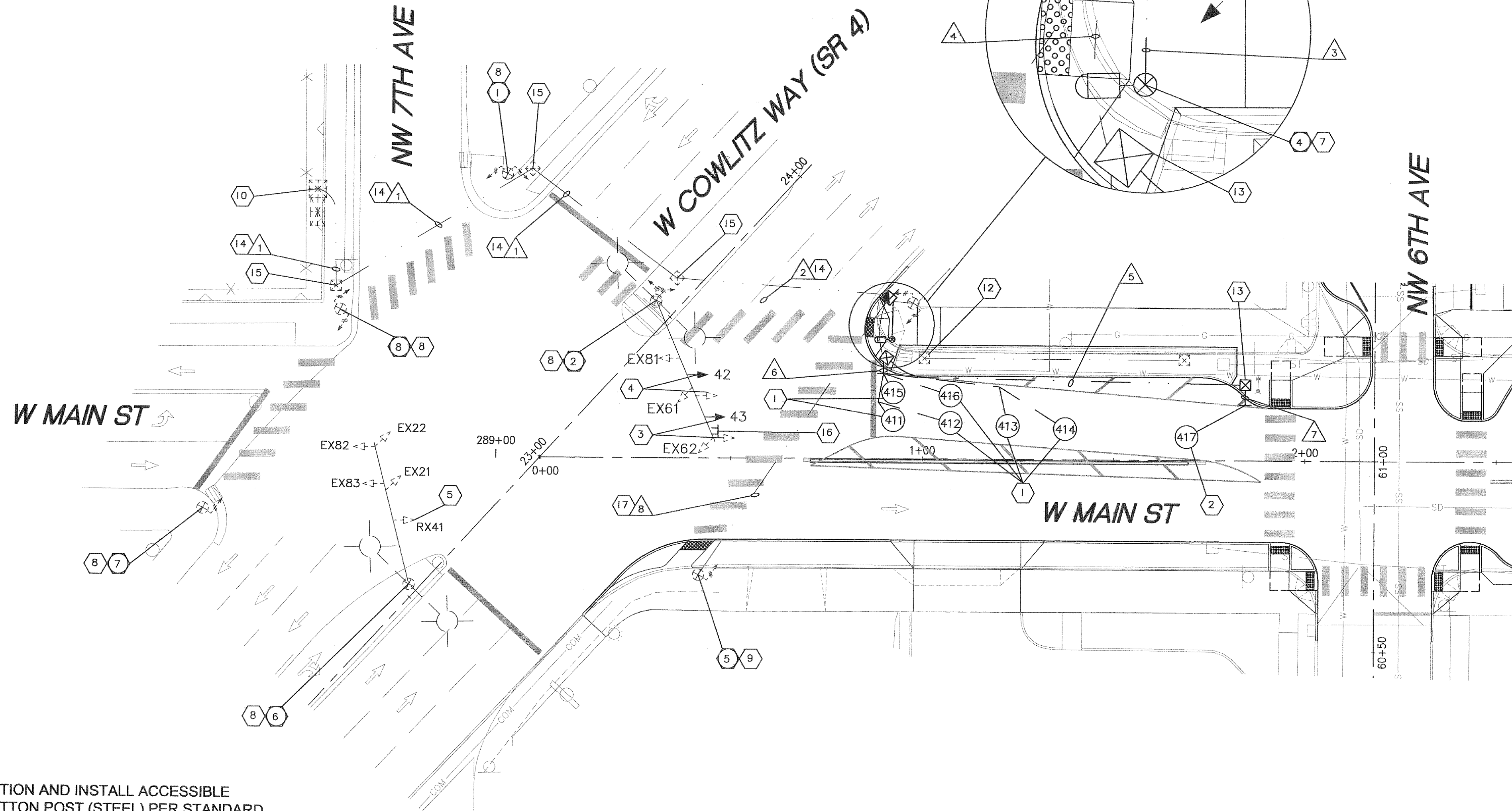
	EXISTING TYPE II SIGNAL STANDARD
	EXISTING TYPE III SIGNAL STANDARD
	EXISTING TYPE I PEDESTRIAN SIGNAL STANDARD
	EXISTING CONTROLLER CABINET
	EXISTING JUNCTION BOX
	TYPE I JUNCTION BOX
	TYPE 2 JUNCTION BOX
	EXISTING PREEMPTION DETECTOR/INDICATOR
	EXISTING MAST ARM SIGN
	EXISTING PEDESTRIAN DISPLAY
	EXISTING PEDESTRIAN PUSHBUTTON
	VEHICLE SIGNAL DISPLAY
	EXISTING SERVICE CABINET
	CONDUIT & CONDUCTOR
	EXISTING CONDUIT & CONDUCTOR
	STOP LINE
	EXISTING CROSSWALK
	CONSTRUCTION NOTE
	WIRE NOTE
	SIGNAL STANDARD NOTE

CONSTRUCTION NOTES:

- INSTALL NEW TYPE 3 STOP BAR DETECTOR LOOP PER WSDOT STANDARD PLANS J-50.12-00. AND J-50.15-00.
- INSTALL NEW TYPE 3 ADVANCED DETECTOR LOOP PER WSDOT STANDARD PLANS J-50.12-00. AND J-50.15-00.
- REMOVE EXISTING SIGNAL HEAD #43 AND REINSTALL 6 FEET NORTH OF CURRENT LOCATION. FIELD LOCATE FINAL POSITION OF SIGNAL HEAD IN THE FIELD WITH ENGINEER.
- REMOVE EXISTING SIGNAL HEAD #42 AND REINSTALL 6 FEET NORTH OF CURRENT LOCATION. FIELD LOCATE FINAL SIGNAL HEAD IN THE FIELD WITH ENGINEER.
- REMOVE EXISTING SIGNAL HEAD #41.
- MAINTAIN EXISTING PEDESTRIAN SIGNAL STANDARD AND SIGNAL HEADS. REMOVE AND SALVAGE EXISTING PEDESTRIAN PUSHBUTTONS PER STANDARD SPECIFICATIONS (PLUG HOLES).

SIGNAL STANDARD DETAIL CHART

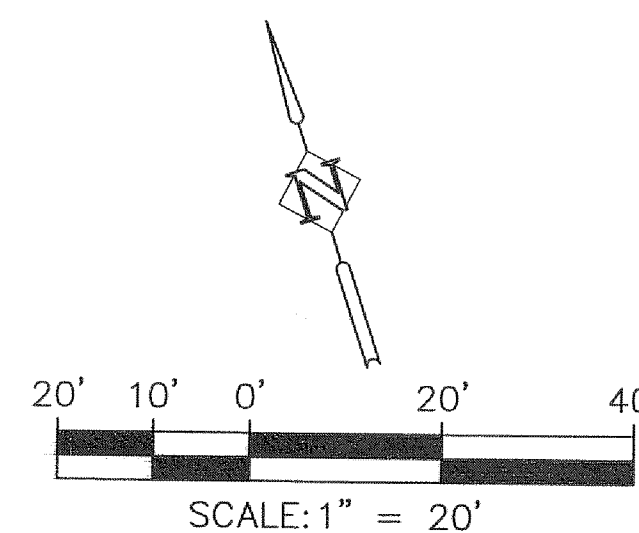
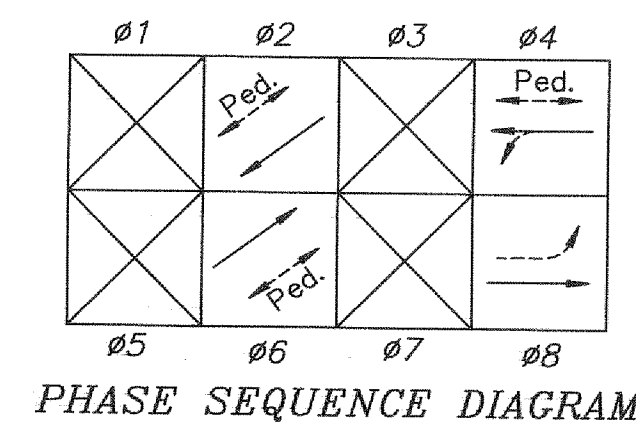
STD. No.	FIELD LOCATION					TYPE	POLE (deg) ATTACHMENT POINT ANGLES		REMARKS	
	STATION	STATIONING	OFFSET	LT.	RT.		P.O.A.	I1		I2
4	W MAIN ST	0+92	31.2'			N	PPB	45	315	RIGHT ARROW/RIGHT ARROW
5	W MAIN ST	EX	EX			N	EX	300		LT ARROW SIGN



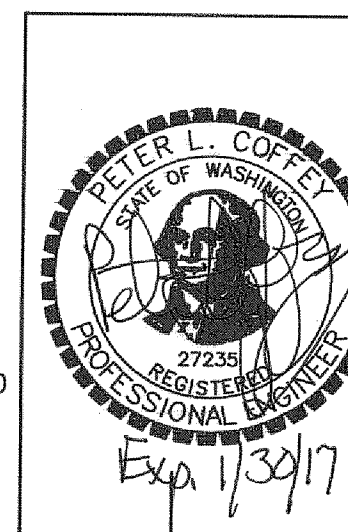
- CONSTRUCT FOUNDATION AND INSTALL ACCESSIBLE PEDESTRIAN PUSHBUTTON POST (STEEL) PER STANDARD PLAN J-20.10-03. PROVIDE AND INSTALL TWO POLARA 2-SIRE, NAVIGATOR MODEL ACCESSIBLE PEDESTRIAN PUSHBUTTONS WITH SIGNS ON POLE. INSTALL NEW TWO 2cs BETWEEN PUSHBUTTON AND CONTROLLER CABINET.
- MAINTAIN AND PROTECT EXISTING SIGNAL STANDARD.
- PROTECT EXISTING PEDESTRIAN SIGNAL STANDARD. SALVAGE EXISTING PEDESTRIAN PUSHBUTTON PER SPECIFICATIONS. INSTALL ONE POLARA 2-WIRE, NAVIGATOR MODEL ACCESSIBLE PEDESTRIAN PUSHBUTTON WITH SIGN ON POLE.
- INSTALL POLARA EZ COMMUNICATION CENTRAL CONTROL UNIT IN EXISTING TRAFFIC SIGNAL CABINET.
- REMOVE EXISTING JUNCTION BOX AND REPLACE WITH NEW TYPE 2 JUNCTION BOX. PROTECT EXISTING CONDUIT AND WIRING.
- REMOVE EXISTING JUNCTION BOX.
- INSTALL NEW TYPE I JUNCTION BOX. SEE WSDOT STANDARD PLAN J-40.10-03.
- MAINTAIN AND PROTECT EXISTING CONDUIT AND WIRING. REMOVE EXISTING WIRING FOR LOOPS ON EAST LEG.
- MAINTAIN AND PROTECT EXISTING JUNCTION BOX.
- MAINTAIN AND PROTECT EXISTING "LEFT TURN YIELD" SIGN.
- MAINTAIN AND PROTECT EXISTING CONDUIT AND WIRING.

NOTES:

- MAINTAIN AND PROTECT EXISTING VEHICLE DETECTOR LOOPS ON NORTH, SOUTH, AND WEST LEGS OF INTERSECTION.
- MAINTAIN AND PROTECT ALL EXISTING TRAFFIC SIGNAL EQUIPMENT NOT IDENTIFIED ON THIS SHEET.



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REVISION	DATE	DESCRIPTION	BY

JOB No. 13564E
 Designed By: CAG
 Drawn By: DKS CAD
 Checked By: PLC
 DATE: 2/5/2016
 SCALE: AS SHOWN
 DWG NO.: S03

WEST MAIN STREET REVITALIZATION PROJECT
TRAFFIC SIGNAL MODIFICATION PLAN
 W. Cowlitz Way/W. Main St.

CITY OF KELSO
 PUBLIC WORKS DEPARTMENT
 203 S. PACIFIC AVE. SUITE 205
 KELSO, WA 98626

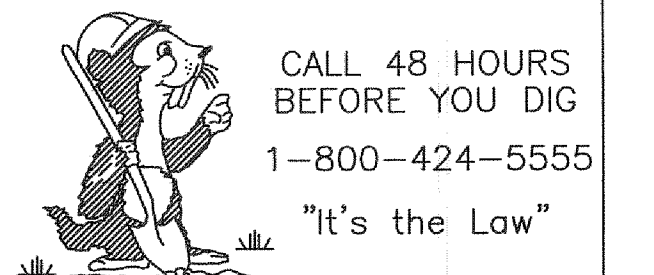
SHEET NUMBER
 42 of 57

SIGN REMOVAL SPECIFICATIONS

Sign Number	Sign Code	Location	Sign Description	Sign Size		Post Material	Post Size (in)	# of Posts	Remarks
				X	Y				
R-1	Special	1+85	Amtrack	24	12	-	-	-	Posted on Luminaire to be removed. Signs to be removed and relocated. See Sign Installation Specifications.
	I5-7		Train Station (symbol)	24	24				
	M6-3		Directional Up Arrow	21	15				
R-2	D9-2	1+37	Hospital (Symbol)	24	24	-	-	-	Posted on Luminaire to be removed. Hospital sign to be removed and relocated. Hospital arrow and no parking signs to be salvaged. See Sign Installation Specifications.
	R7-101		No Parking Any Time	12	18				
R-3	R2-1	3+015	Speed Limit 25	24	30	-	-	-	Posted on Luminaire to be removed.
	Special		Best Western	24	24				
R-4	R1-1	2+00	Stop	30	30	Steel	2.5	1	
	TR-100 Mod		Main Street	33	9				
	TR100 Mod		NW 6th Ave	33	9				
R-5	Special	6+09	Best Western	24	24	-	-	-	Posted on Luminaire to be removed.
R-6	R1-1	7+10	Stop	30	30	Wood	2.5	1	
	TR-100 Mod		Main Street	33	9				
	TR-100 Mod		NW 4th Ave	33	9				
R-7	R1-1	7+57	Stop	30	30	Wood	2.5	1	
	TR-100 Mod		Main Street	33	9				
	TR-100 Mod		NW 4th Ave	33	9				

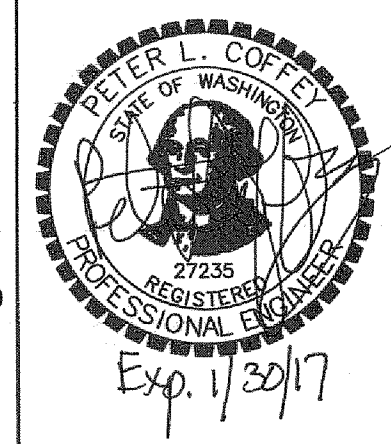
NOTES

- EXISTING STATION LOCATIONS, SIGN SIZES, AND POST SIZES SHOWN ARE APPROXIMATE ONLY.
- FOR CODE REFERENCES AND STANDARD SIGN LAYOUT DETAILS SEE WASHINGTON STATE SIGN FABRICATION MANUAL. FOR TR-100 REFERENCES SEE KELSO/LONGVIEW STANDARD PLAN TR-100 FOR STREET NAME SIGNS.



X:\Projects\2015\151P15095-000 (Kelso W. Main St. Revitalization)\ACAD\IST-01.dwg

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720 SW Washington Street, Suite 500
Portland, Oregon 97205
(503) 243-3500
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REVISION	DATE	DESCRIPTION	BY
JOB No. 13564E			
Designed By: KAS			
Drawn By: DKS CAD			
Checked By: PLC			
DATE: 2/5/2016			
SCALE: AS SHOWN			
DWG NO: ST01			

**WEST MAIN STREET
REVITALIZATION PROJECT**

SIGN SPECIFICATIONS

CITY OF KELSO
PUBLIC WORKS DEPARTMENT
203 S. PACIFIC AVE. SUITE 205
KELSO, WA 98626

SHEET NUMBER
43 of 57

SIGN INSTALLATION SPECIFICATIONS

Sign Post No	Sign Code	Sign Description	Station *	Sign Size (in)		Sheeting Type	Letter Size Or Code	Post Material	Post Size	Post Length (ft)				Clearance (ft)		Remarks
				X	Y					H1	H2	H3	H4	V	W (Min.)	
1	R6-1R	One Way	2+04	36	12	III or IV	Sign Detail	PSST	2-1/4" SQ	11				10	6.5	Top mount two signs back to back on post above R6-1R
	TR-100 MOD	NW 6th Ave		33	9	III or IV	Sign Detail							11	6.5	
2	R7-801	Reserved Parking (Disabled Logo)	3+15	12	18	III or IV	Sign Detail	PSST	2-1/4" SQ	9.5				8	NA	Mount below R7-801
	R7-801A	Van Accessible		18	9	III or IV	Sign Detail							7	NA	
3	R2-1 (25)	Speed Limit 25	2+73	24	30	III or IV	Sign Detail	-	-	-	-	-	-	7	1	Mount on Proposed Luminaire
	R7-5	1HR Parking (8AM-5PM)		12	18	III or IV	Sign Detail	-	-	-	-	-	-	-	-	-
4	R5-1	Do Not Enter	62+47	36	36	III or IV	Sign Detail	PSST	2-1/2" SQ	11				8	14.5	Mount two-sign (right/left, arrows pointing north) back to back above R5-1
	R6-1L/R	One Way	NW 6th Ave	36	12	III or IV	Sign Detail							7	14.5	
5	R7-801	Reserved Parking (Disabled Logo)	6+73	12	18	III or IV	Sign Detail	PSST	2-1/4" SQ	9.5				8	NA	Mount below R7-801
	R7-801A	Van Accessible		18	9	III or IV	Sign Detail							7	NA	
	R7-5	1HR Parking (8AM-5PM)		12	18	III or IV	Sign Detail							-	-	
6	R1-1	Stop	7+58	30	30	III or IV	Sign Detail	PSST	2-1/2" SQ	11				7	1	Mount two signs back to back on post above R1-1
	TR-100 MOD	W Main Street		33	9	III or IV	Sign Detail							10	1	
	TR-100 MOD	SW 4th Av		33	9	III or IV	Sign Detail							11	1	
7	R1-1	Stop	7+10	30	30	III or IV	Sign Detail	PSST	2-1/2" SQ	11				7	1	Mount two signs back to back on post above R6-1R
	TR-100 MOD	W Main Street		33	9	III or IV	Sign Detail							10	1	
	TR-100 MOD	SW 4th Av		33	9	III or IV	Sign Detail							11	1	
8	R2-1 (25)	Speed Limit 25	8+90	24	30	III or IV	Sign Detail	-	-	-	-	-	-	7	2	Mount on Proposed Luminaire
10	R7-1L	No Parking Anytime (L)	1+83	12	18	III or IV	Sign Detail	-	-	-	-	-	-	7	2	Mount on Proposed Luminaire below sign #10.
	D9-2	Hospital (Symbol)	1+83	24	24	EX	EX	-	-	-	-	-	-	9.75	2	Mount on Luminaire Pole.
	M5-1L	Advanced Left Turn Arrow		21	15	III or IV	Sign Detail	-	-	-	-	-	-	8.5	2	Sign to be white lettering on blue background.
11	SPECIAL	Amtrack	1+81	24	12	EX	EX	PSST	2-1/2" SQ	13				10	1	Reinstall existing signs on new sign support.
	I5-7	Train Station (Symbol)		24	24	EX	EX							9	1	
	M-6	Directional Arrow 360 Degrees		21	15	EX	EX							7	1	
12	R7-1R	No Parking Anytime (R)	62+32 NW 6th Ave	12	8	III or IV	Sign Detail	PSST	2-1/4" SQ	9.5				7	1	
13	R7-5	1HR Parking (8AM-5PM)	3+00	12	8	III or IV	Sign Detail							7	1	Mount on Proposed Luminaire
14	R7-5	1HR Parking (8AM-5PM)	4+00	12	8	III or IV	Sign Detail	PSST	2-1/4" SQ	9.5				7	1	
15	R7-5	1HR Parking (8AM-5PM)	4+05	12	8	III or IV	Sign Detail							7	1	Mount on Proposed Luminaire
16	R7-5	1HR Parking (8AM-5PM)	5+64	12	8	III or IV	Sign Detail	PSST	2-1/4" SQ	9.5				7	1	
17	R7-5	1HR Parking (8AM-5PM)	6+68	12	8	III or IV	Sign Detail	PSST	2-1/4" SQ	9.5				7	1	
18	R7-5	1HR Parking (8AM-5PM)	5+64	12	8	III or IV	Sign Detail							7	1	Mount on Proposed Luminaire
19	R7-5	1HR Parking (8AM-5PM)	8+28	12	8	III or IV	Sign Detail							7	1	Mount on Proposed Luminaire
20	R7-5	1HR Parking (8AM-5PM)	8+91	12	8	III or IV	Sign Detail							7	1	Mount on Proposed Luminaire
21	R7-1	No Parking Any Time	1+40	12	8	III or IV	Sign Detail	PSST	2-1/4" SQ	9.5				7	1	
22	R3-1	No Right Turn	25+24 W Cowlitz Way	36	36	III or IV	Sign Detail	PSST	2-1/2" SQ	11				7	1	
23	R9-3	No Pedestrian Xing (Symbol)	22+23 W Cowlitz Way	18	18	III or IV	Sign Detail	PSST	2-1/4" SQ	9.5				7	1	Mount two signs back to back.
24	R9-3	No Pedestrian Xing (Symbol)	22+75 W Cowlitz Way	18	18	III or IV	Sign Detail	PSST	2-1/4" SQ	9.5				7	1	Mount two signs back to back.
25	R7-5	1HR Parking (8AM-5PM)	60+43 NW 6th Ave	12	8	III or IV	Sign Detail	PSST	2-1/4" SQ	9.5				7	1	

* STATIONING ALONG W MAIN STREET UNLESS OTHERWISE SPECIFIED

NOTES

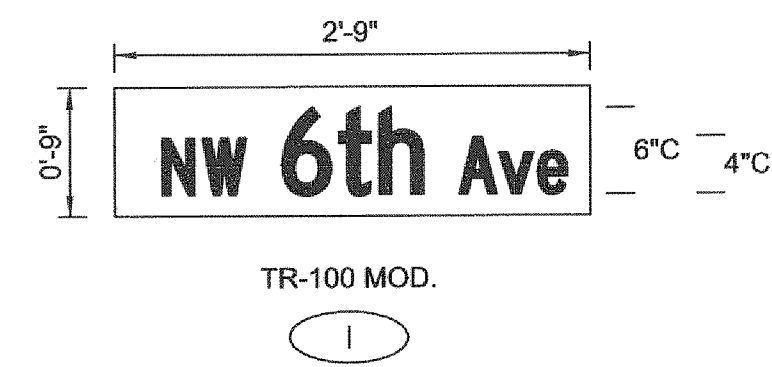
- FOR CODE REFERENCES AND STANDARD SIGN LAYOUT DETAILS SEE WASHINGTON STATE SIGN FABRICATION MANUAL. FOR TR-100 REFERENCES SEE KELSO/LONGVIEW STANDARD PLAN TR-100 FOR STREET NAME SIGNS.
- SIGNS SHALL BE LOCATED PER THE TYPICAL SIGN LOCATION OR AS SHOWN ON THE PLANS.
- LOCATIONS OF ALL SIGNS SHALL BE VERIFIED IN THE FIELD BY THE ENGINEER PRIOR TO INSTALLATION.
- FOR STRUCTURE AND MOUNTING DETAILS SEE STANDARD PLAN SERIES "G".
- POST LENGTHS SHOWN ARE APPROXIMATE. FINAL VALUES SHALL BE DETERMINED IN THE FIELD PRIOR TO FABRICATION.
- SEE WSDOT STANDARD PLAN G-24.50-03 FOR PSST SIGN SUPPORT. USE ST-2 FOR 2-1/4" SQ. AND ST-4 FOR 2-1/2" SQ. WHEN INSTALLING SIGNS IN EXISTING SIDEWALK, CORE DRILL THE SIDEWALK DURING EXCAVATION.
- FOR SIGNS SHOWN AS DUAL-SIDED, INSTALL STREET NAME LEGEND AND BACKGROUND ON BOTH FACES OF SIGN BLANK.



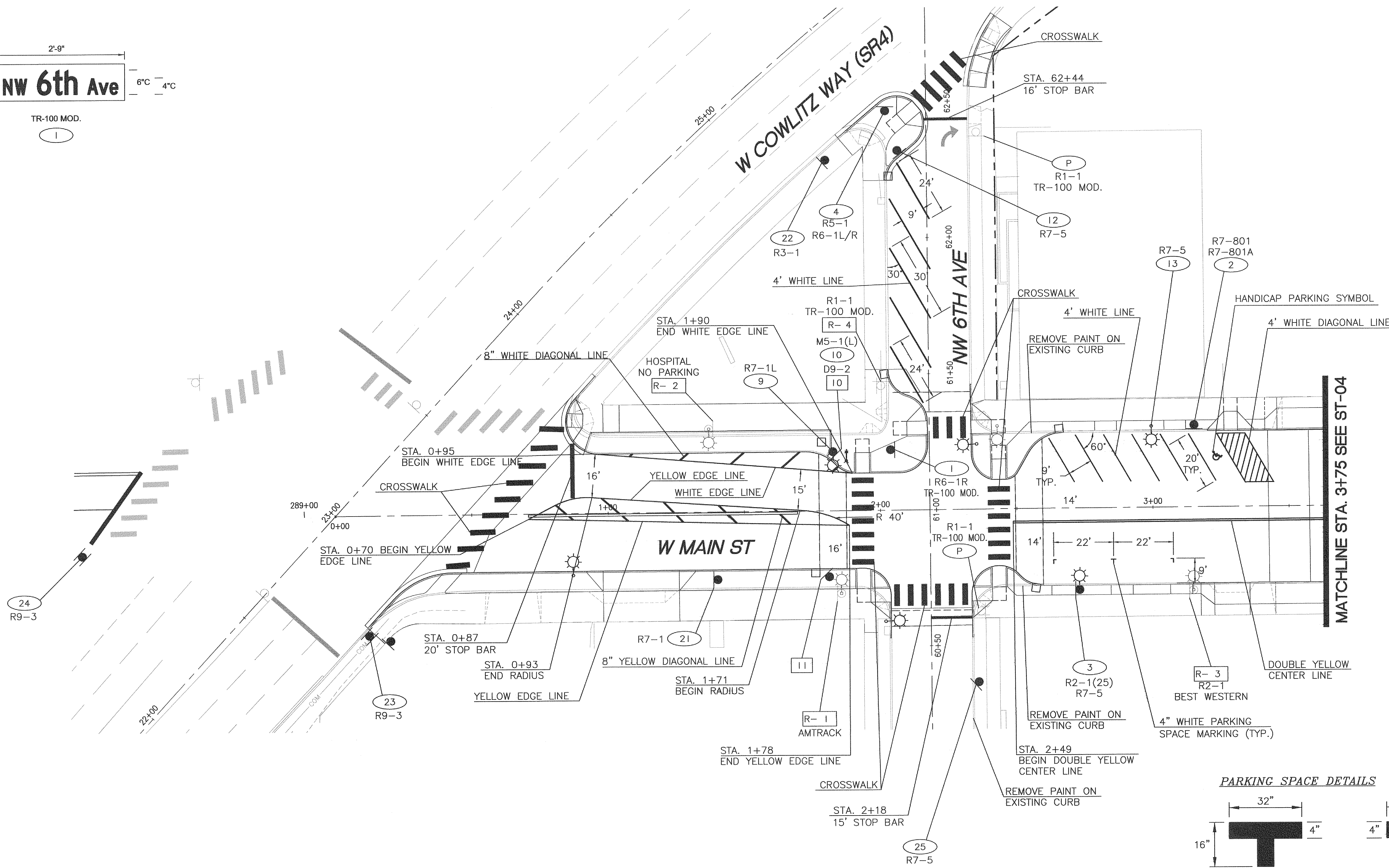
X:\Projects\2015\15095-000 (Kelso W. Main St. Revitalization)\ACAD\ST-02.dwg

DKS 720 SW Washington Street, Suite 500
Portland, Oregon 97205
(503) 243-3500
www.dksassociates.com

	REVISION	DATE	DESCRIPTION	BY	
	JOB No.	13564E	WEST MAIN STREET REVITALIZATION PROJECT		
	Designed By:	KAS	SIGN SPECIFICATIONS		
	Drawn By:	DKS CAD	CITY OF KELSO PUBLIC WORKS DEPARTMENT 203 S. PACIFIC AVE. SUITE 205 KELSO, WA 98626		
Checked By:	PLC	SHEET NUMBER			
DATE:	2/5/2016	44 of 57			
SCALE:	AS SHOWN				
DWG NO.:	ST02				



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MATCHLINE STA. 3+75 SEE ST-04

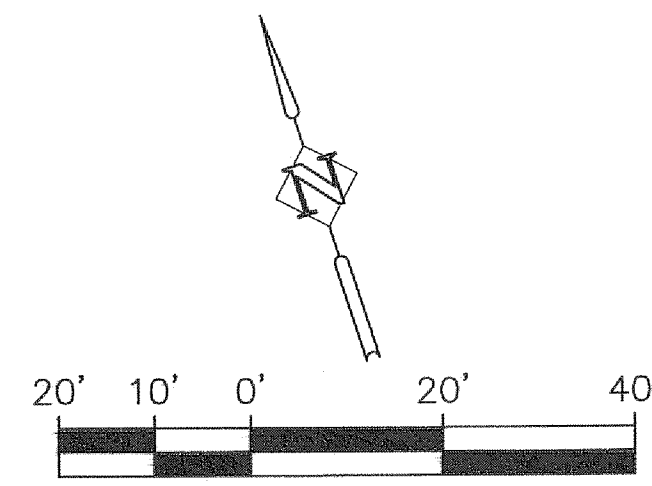
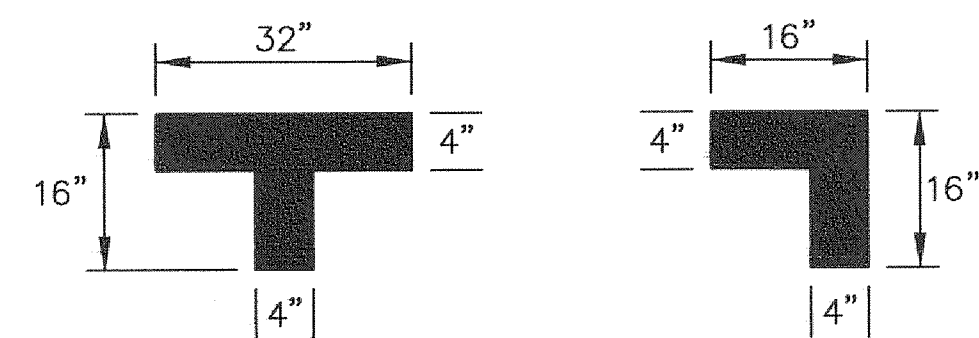
GENERAL NOTES

1. REMOVE ANY PAVEMENT MARKINGS THAT CONFLICT WITH THIS PLAN.
2. ALL LONGITUDINAL LINES SHALL BE TYPE D- LIQUID COLD APPLIED METHYL METHACRYLATE, PROFILED. ALL ARROWS SHALL BE TYPE B- PRE-FORMED FUSED THERMOPLASTIC. ALL CROSSWALKS, STOP LINES, AND OTHER TRANSVERSE MARKINGS SHALL BE TYPE A- LIQUID HOT APPLIED THERMOPLASTIC.
3. SEE WSDOT STANDARD PLAN M-15.10 FOR CROSSWALK AND STOP LINE LAYOUT DETAILS.
4. SEE WSDOT STANDARD PLANS M-20.10 AND M-20.20 FOR LONGITUDINAL MARKING PATTERNS.
5. SEE WSDOT STANDARD PLANS M-9.50, M-24.40, AND M-24.60 FOR SYMBOL DETAILS.

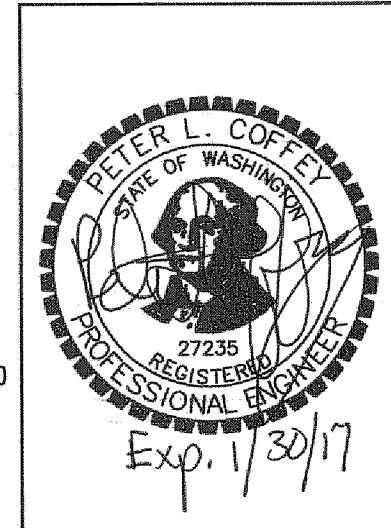
LEGEND

- EXISTING SIGN
- NEW SIGN
- NEW SIGN NOTE
- PROTECT EXISTING SIGN ASSEMBLY
- EXISTING SIGN TO BE REMOVED
- SIGN RELOCATE CODE NUMBER

PARKING SPACE DETAILS



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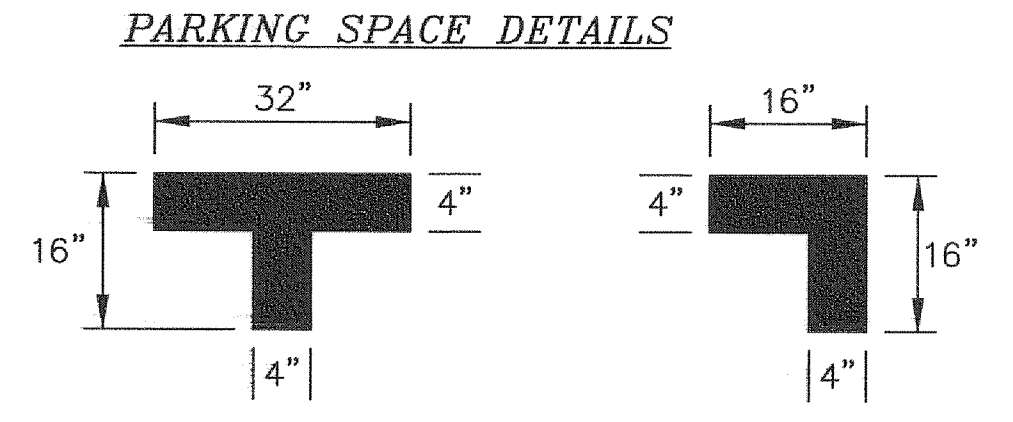
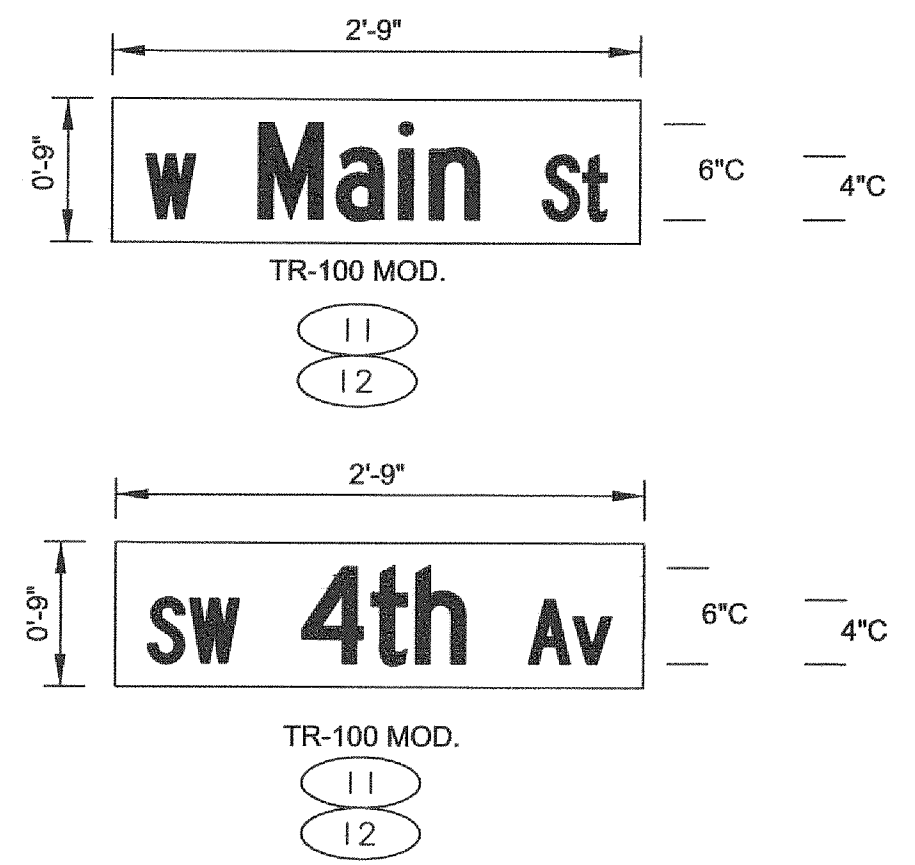
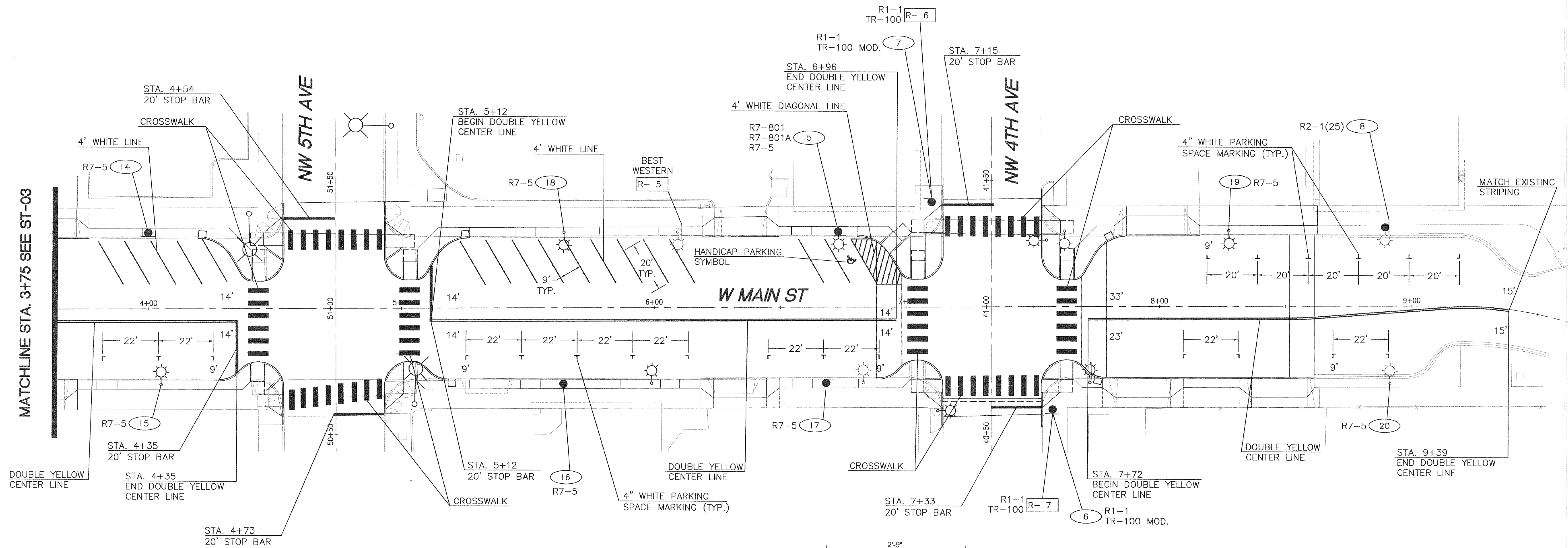


REVISION	DATE	DESCRIPTION	BY
JOB No.	13564E		
Designed By:	KAS		
Drawn By:	DKS CAD		
Checked By:	PLC		
DATE:	2/5/2016		
SCALE:	AS SHOWN		
DWG NO.:	ST03		

**WEST MAIN STREET
 REVITALIZATION PROJECT
 SIGNING AND PAVEMENT MARKING PLANS**
W. Cowlitz Way/W. Main St.

 CITY OF KELSO PUBLIC WORKS DEPARTMENT 203 S. PACIFIC AVE. SUITE 205 KELSO, WA 98626	SHEET NUMBER 45 of 57
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X:\Projects\2015\PI\5095-000 (Kelso W. Main St. Revitalization)\ACADIST-04.dwg

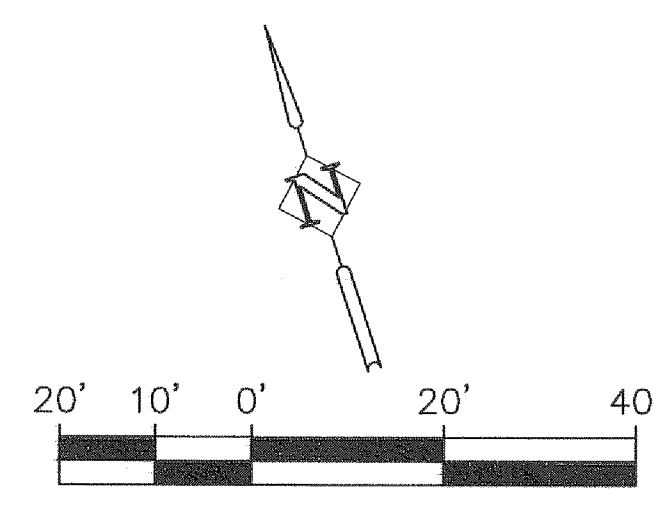


GENERAL NOTES

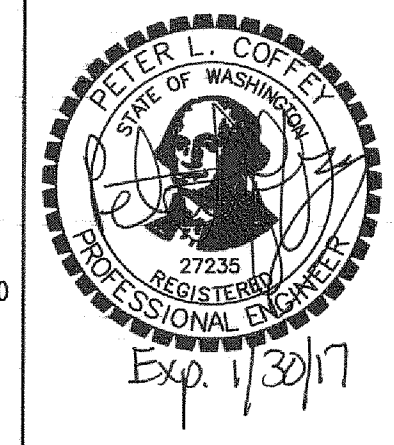
1. REMOVE ANY PAVEMENT MARKINGS THAT CONFLICT WITH THIS PLAN.
2. ALL LONGITUDINAL LINES SHALL BE TYPE D- LIQUID COLD APPLIED METHYL METHACRYLATE, PROFILED. ALL ARROWS SHALL BE TYPE B- PRE-FORMED FUSED THERMOPLASTIC. ALL CROSSWALKS, STOP LINES, AND OTHER TRANSVERSE MARKINGS SHALL BE TYPE A- LIQUID HOT APPLIED THERMOPLASTIC.
3. SEE WSDOT STANDARD PLAN M-15.10 FOR CROSSWALK AND STOP LINE LAYOUT DETAILS.
4. SEE WSDOT STANDARD PLANS M-20.10 AND M-20.20 FOR LONGITUDINAL MARKING PATTERNS.
5. SEE WSDOT STANDARD PLANS M-9.50, M-24.40, AND M-24.60 FOR SYMBOL DETAILS.

LEGEND

- EXISTING SIGN
- NEW SIGN
- PROTECT EXISTING SIGN ASSEMBLY
- NEW SIGN NOTE
- EXISTING SIGN TO BE REMOVED

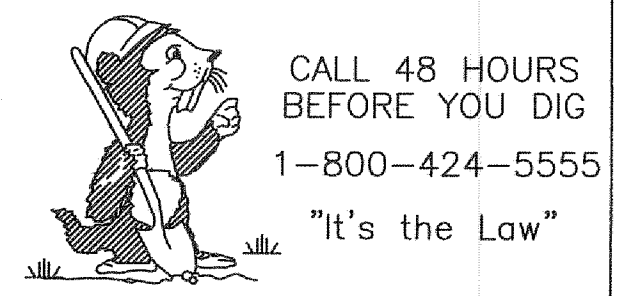


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REVISION	DATE	DESCRIPTION	BY
JOB No.	13564E		
Designed By:	KAS		
Drawn By:	DKS CAD		
Checked By:	PLC		
DATE:	2/5/2016		
SCALE:	AS SHOWN		
DWG NO.:	ST04		

WEST MAIN STREET REVITALIZATION PROJECT SIGNING/PAVEMENT MARKING PLANS W. Main St.		
CITY OF KELSO PUBLIC WORKS DEPARTMENT 203 S. PACIFIC AVE. SUITE 205 KELSO, WA 98626		SHEET NUMBER 46 of 57



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**Sign and Pavement Marking
General Construction Notes**

SIGNS:

All signing shall meet the most current version of the Manual on Traffic Control Devices (MUTCD) standards for size, reflectivity and installation location unless specified differently in these standard details. The MUTCD is available electronically on the Internet and can be found at: <http://mutcd.fhwa.dot.gov/>.

Stop/Yield Signs: These signs shall be of High Intensity grade, installed on a minimum 0.080 gauge sign blank. Stop signing shall be a minimum of 30" in size with Yield signing a minimum of 36".

Speed Limit/No Parking Signs: These signs shall be as stated above, with Speed Limit signing a minimum of 24" x 30" in size and No Parking signing a minimum size of 12" x 18".

Street Name Signs: See Detail TR-100.

PAVEMENT MARKINGS:

The Washington State Department of Transportation's (WSDOT) Standard Specifications and Standard Plans are referenced below. These documents are available electronically on the Internet and can be found at: <http://www.wsdot.wa.gov/fasc/EngineeringPublications/library.htm>

Longitudinal Lines: Longitudinal lane lines shall be Liquid Cold Applied Methyl Methacrylate, per section 9-34.3(4) of the WSDOT's standard specifications and shall be profiled as per WSDOT's standard plan M-20.20-01.

Crosswalks: Crosswalks shall used may be installed with one of the following materials.

1. Liquid Hot Applied Thermoplastic - Section 9-34.3(1) of WSDOT standard specifications
2. Pre-formed Cold Applied Pre-formed Type - Section 9-34.3(3) of WSDOT standard specifications
3. Liquid Cold Applied Methyl Methacrylate - Section 9-34.3(4) of WSDOT standard specifications

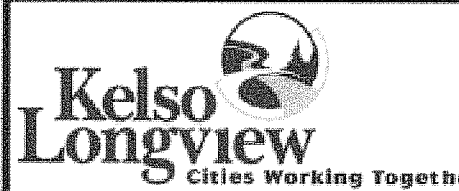
Crosswalks shall be installed as shown per WSDOT's standard plan M-15.10-01. Final layout of the crosswalk shall be approved by the engineer prior to installation.

Stop Bars: Crosswalks shall used may be installed with one of the following materials.

1. Liquid Hot Applied Thermoplastic - Section 9-34.3(1) of WSDOT standard specifications
2. Pre-formed Cold Applied Pre-formed Type - Section 9-34.3(3) of WSDOT standard specifications
3. Liquid Cold Applied Methyl Methacrylate - Section 9-34.3(4) of WSDOT standard specifications

Location of crosswalks is shown on WSDOT's standard plan M-15.10-01. Crosswalks shall be installed as shown per WSDOT's standard plan M-24.50-02.

Arrows: Traffic arrows shall be Pre-formed Fused Thermoplastic per section 9-34.3(2) of the WSDOT's standard specifications. Location of arrows shall conform with Figure 3B-22 of the MUTCD.

	SIGNS & PAVEMENT MARKING - CONSTRUCTION NOTES	
	STANDARD PLAN: TR-075	CITY ENGINEER APPROVAL: Longview: C.B. Kelso: S.Z.
	DATE: FEB. 2008	

**Sign and Pavement Marking
General Construction Notes (cont.)**

Other Pavement Markings: Other pavement markings shall used may be installed with one of the following materials.

1. Liquid Hot Applied Thermoplastic - Section 9-34.3(1) of WSDOT standard specifications
2. Pre-formed Cold Applied Pre-formed Type - Section 9-34.3(3) of WSDOT standard specifications
3. Liquid Cold Applied Methyl Methacrylate - Section 9-34.3(4) of WSDOT standard specifications

Other pavement marking shall be installed using the appropriate plan of Section M of WSDOT's standard plans.

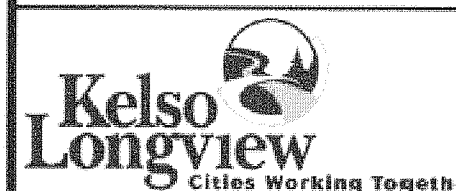
BARRICADES:

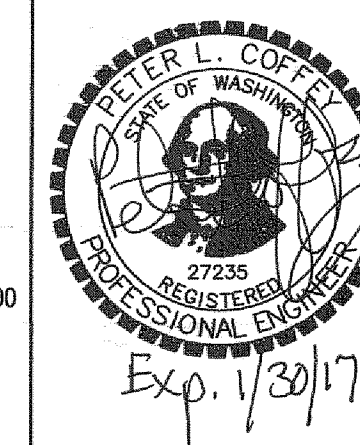
All barricades shall comply with 6F.63 of the MUTCD with the additions below.

Type III Barricades: Type III barricades shall be made of material that is considered breakable (plastic, 1/2" plywood, 1"X 8" or 12" pine or fir). Type III Barricades used to close a street shall have both right and left stripes and be accompanied with either a road closed or end of roadway sign.

RAISED PAVEMENT MARKINGS:


All raised pavement markings shall conform with sections 8-09 and 9-21 of the WSDOT standard specifications.

	SIGNS & PAVEMENT MARKING - CONSTRUCTION NOTES	
	STANDARD PLAN: TR-076	CITY ENGINEER APPROVAL: Longview: C.B. Kelso: S.Z.
	DATE: FEB. 2008	



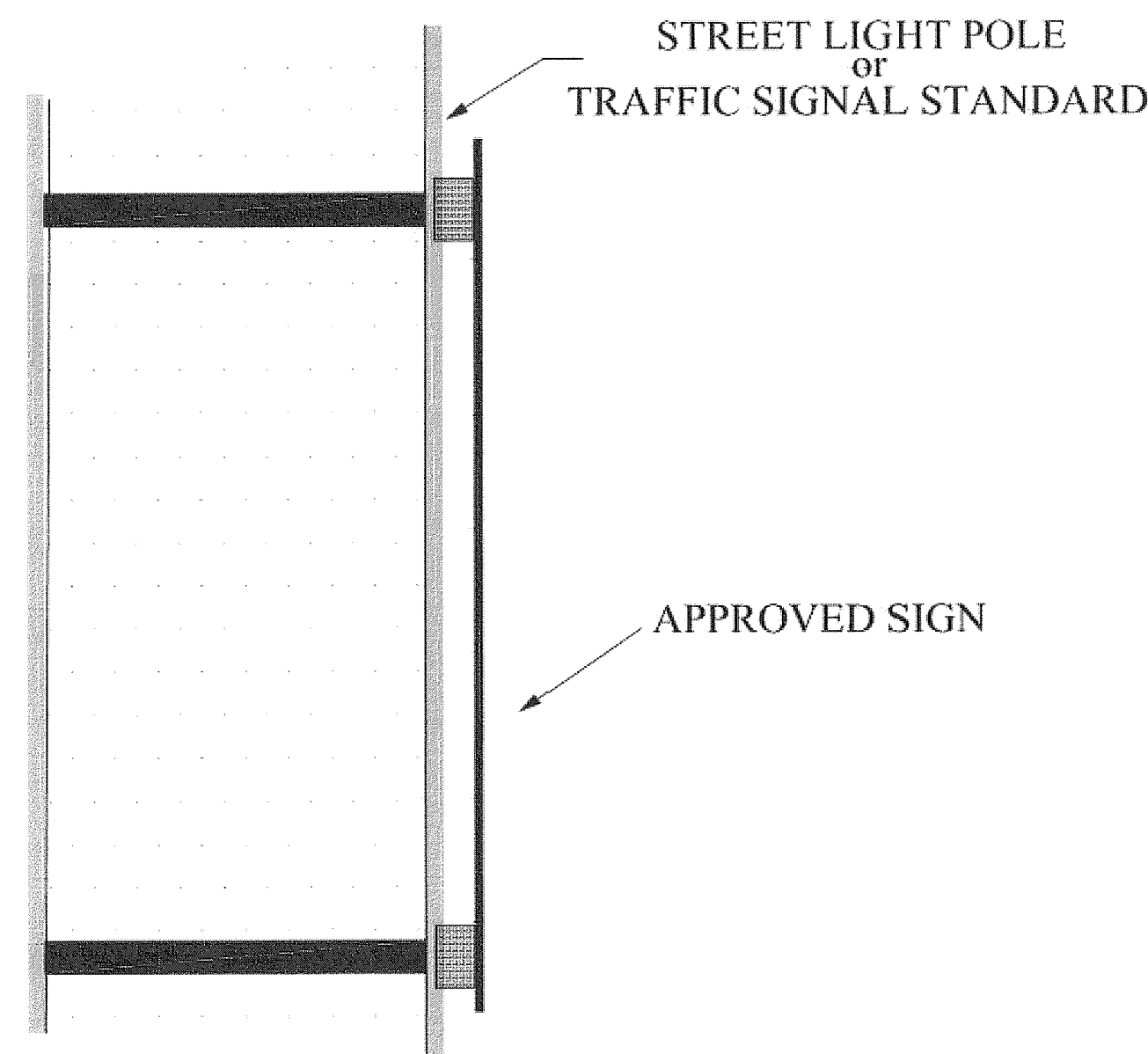
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720 SW Washington Street, Suite 500
Portland, Oregon 97205
(503) 243-3500
www.dksassociates.com

REVISION	DATE	DESCRIPTION	BY
JOB No. 13564E			
Designed By: KAS			
Drawn By: DKS CAD			
Checked By: PLC			
DATE: 2/5/2016			
SCALE: AS SHOWN			
DWG NO.: ST05			

WEST MAIN STREET REVITALIZATION PROJECT SIGNING/PAVEMENT MARKING STANDARD PLANS	
	CITY OF KELSO PUBLIC WORKS DEPARTMENT 203 S. PACIFIC AVE. SUITE 205 KELSO, WA 98626
	SHEET NUMBER 47 of 57

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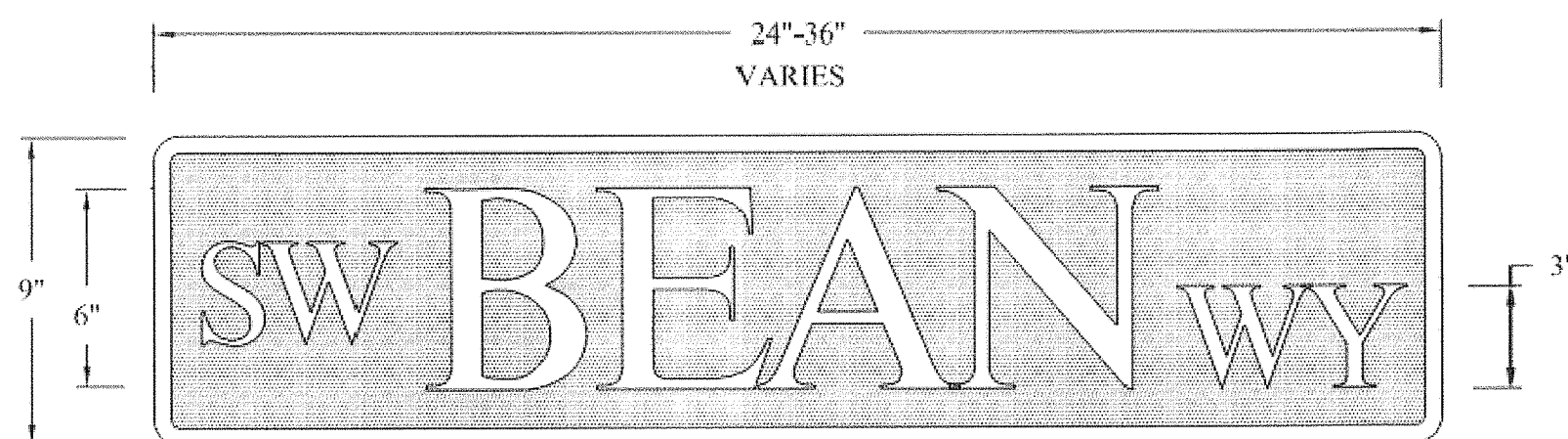
City of Longview Sign Banding Detail
 Traffic Signal Standards
 and
 Aluminum Street Light Pole Applications



Banding brackets and clips shall be stainless steel BRAND-IT brand.
 Banding shall be 3/4" wide x 0.030 thickness, #C20699 Valustrap
 Clips shall be #C15699 Valuclips
 Bracket shall be flared leg with bolt and washer, #D021 Brack-Its.

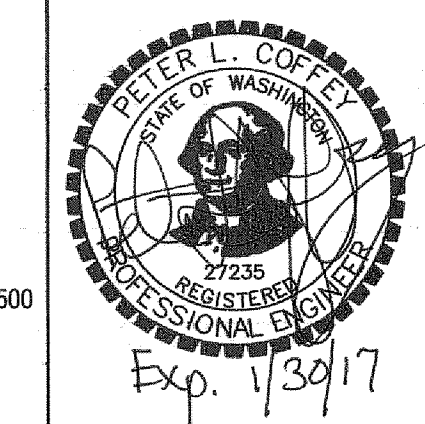
 For street light installation, 9" street name signs shall use #1010 arm cantilever bracket or approved equal

	STREET LIGHT AND SIGNAL POLE SIGN BANDING	
	STANDARD PLAN: TR - 095	CITY ENGINEER APPROVAL: Longview: C. B.
	DATE: FEB. 2008	Kelso: S. Z.



STREET NAME SIGNS SHALL CONSIST OF MIN. 24" TO MAX. 36" BULB EXTRUDED BLANK THE SIZE OF STREET NAMING SIGN WILL DEPEND ON THE LENGTH OF THE STREET NAME.
 SHEETING SHALL BE HIGH INTENSITY GRADE.
 LETTERING SHALL BE WHITE, UPPER CASE AND HIGH INTENSITY OR BETTER.
 STREET NAMES SHALL BE 6" IN HEIGHT AND MINIMUM SERIES B IN WIDTH.
 PREFIXES AND SUFFIXES ARE 3" IN HEIGHT AND EITHER SERIES B OR C.
 MOUNTING HARDWARE SHALL MEET THE INSTALLATION NEEDS AND A CATALOG CUT SHEET SHALL BE PROVIDED PRIOR TO INSTALLATION.

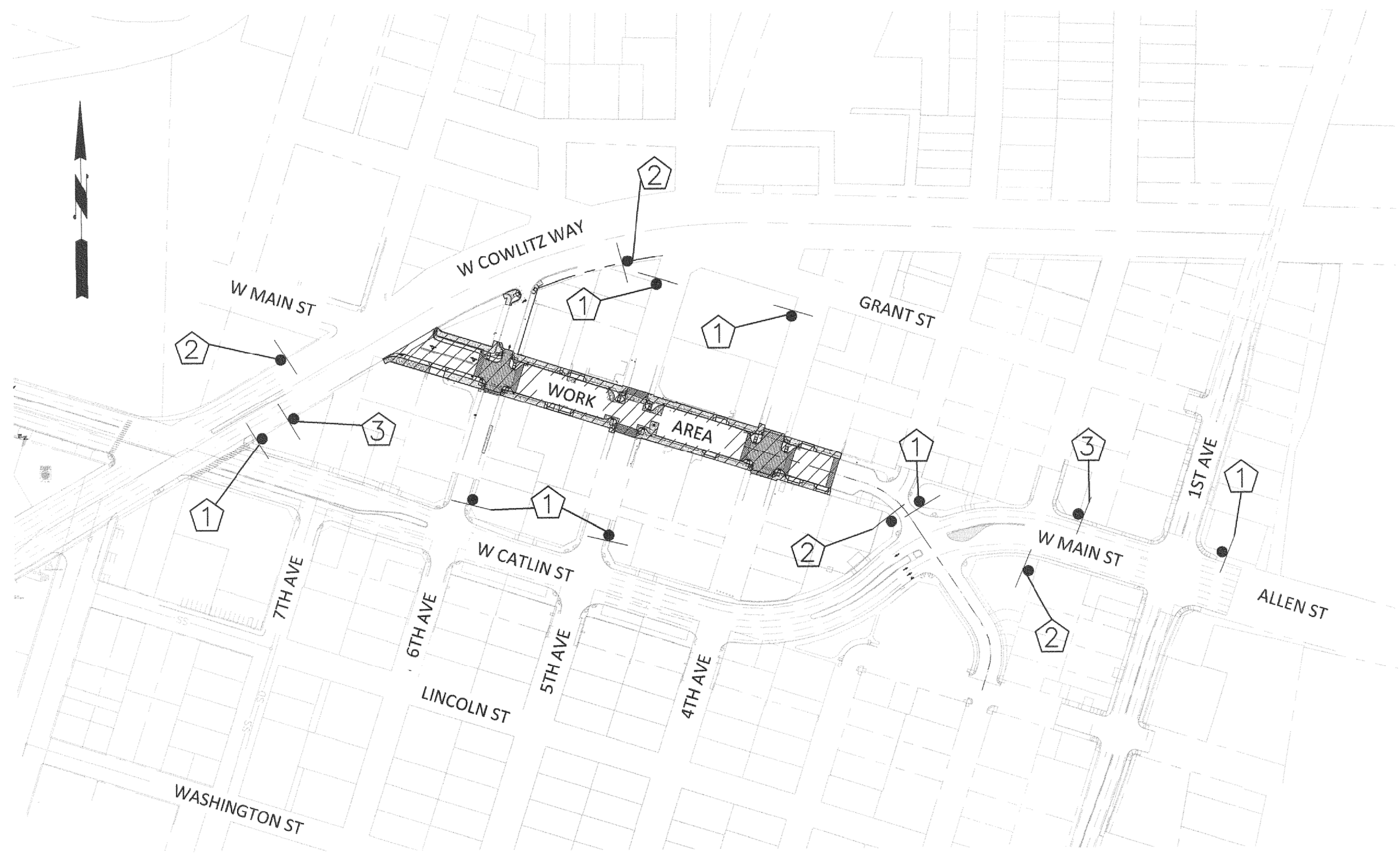
	STREET NAME SIGN	
	STANDARD PLAN: TR - 100	CITY ENGINEER APPROVAL: Longview: C.B.
	DATE: FEB. 2008	Kelso: S.Z.



REVISION	DATE	DESCRIPTION	BY
JOB No. 13564E			
Designed By: KAS		WEST MAIN STREET REVITALIZATION PROJECT SIGNING/PAVEMENT MARKING STANDARDS PLANS	
Drawn By: DKS CAD			
Checked By: PLC			
DATE: 2/5/2016		CITY OF KELSO PUBLIC WORKS DEPARTMENT 203 S. PACIFIC AVE. SUITE 205 KELSO, WA 98626	SHEET NUMBER 48 of 57
SCALE: AS SHOWN			
DWG NO.: ST06			

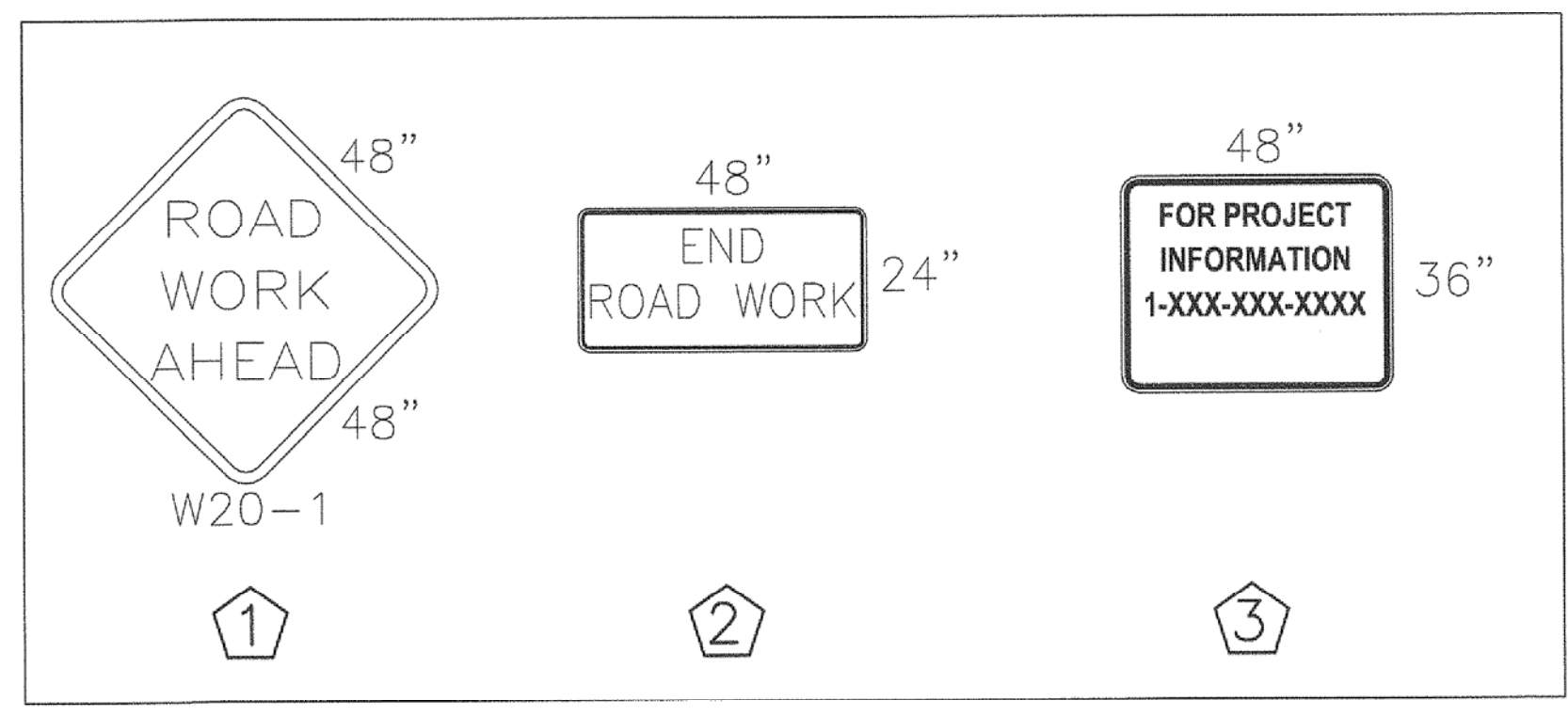
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Apr 06, 2016 - 3:41pm
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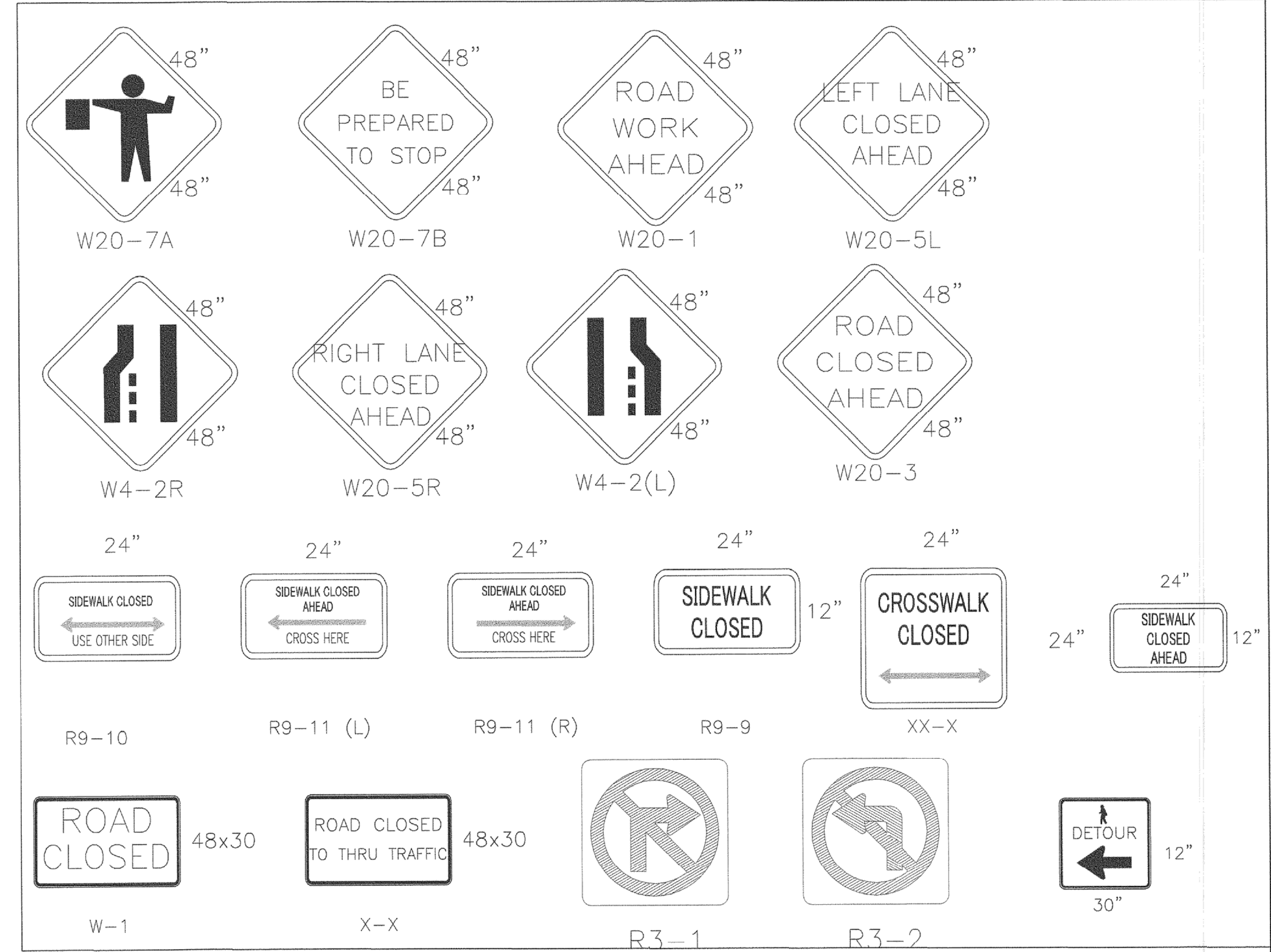


TRAFFIC CONTROL GENERAL NOTES

1. NO ROAD CLOSURE SHALL BE ALLOWED WITHOUT CITY ENGINEER'S PRIOR APPROVAL AS DELEGATED BY THE CITY MANAGER. SPECIAL PROVISIONS WILL INCLUDE ALLOWABLE CLOSURE DETAILS AND LENGTHS OF TIME.
2. THE CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL PLAN FOR CITY APPROVAL.
3. TRAFFIC CONTROL SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN TO ENGINEER FOR REVIEW AND ACCEPTANCE A MINIMUM OF 48-HOURS PRIOR TO CONSTRUCTION. A COPY OF THE ACCEPTED TRAFFIC CONTROL PLAN MUST REMAIN ON THE JOB SITE AT ALL TIMES.
4. SIGN LOCATIONS ARE APPROXIMATE. ACTUAL LOCATIONS SHALL BE DETERMINED BY THE ENGINEER AND NOT CONFLICT WITH EXISTING SIGNING OR PAVEMENT MARKING.
5. MAINTAIN VEHICULAR, BICYCLE, PEDESTRIAN AND EMERGENCY VEHICLE ACCESS TO AREA HOMES ADJACENT BUSINESSES THROUGHOUT CONSTRUCTION.
6. FLAGGING STATIONS SHALL BE ILLUMINATED DURING HOURS OF DARKNESS.
7. WHEN USED, THE DOWNSTREAM TAPER DEVICE SPACING SHALL BE 20' O.C.
8. ALL SIGNS ARE CLASS B UNLESS OTHERWISE NOTED.
9. ALL SIGNS SHALL HAVE A BLACK LEGEND ON AN ORANGE BACKGROUND UNLESS OTHERWISE SPECIFIED.
10. MOTORCYCLES USE EXTREME CAUTION SIGNS (W21-1701) SHALL BE INSTALLED WHEN THE FOLLOWING CONDITIONS EXIST: GROOVED PAVEMENT, ABRUPT LANE EDGE, STEEL PLATES, OR LOOSE GRAVEL.
11. MAINTAIN 4' MINIMUM CLEAR SPACE FOR PEDESTRIANS ON SIDEWALKS OR PROVIDE SIGNED DETOUR. WHEN CROSSWALKS OR OTHER PEDESTRIAN FACILITIES ARE CLOSED OR RELOCATED, TEMPORARY FACILITIES SHALL BE DETECTABLE AND SHALL INCLUDE ACCESSIBILITY FEATURES CONSISTENT WITH THE FEATURES PRESENT IN THE EXISTING PEDESTRIAN FACILITY.
12. SEE WSDOT STANDARD PLAN K-80.10 FOR "CLASS A CONSTRUCTION SIGNING INSTALLATION." FOR SIGN SIZES NOT SHOWN, REFER TO MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND WSDOT SIGN FABRICATION MANUAL M55-05.
13. CONTACT AND COORDINATE IMPACTED TRANSIT AGENCIES PRIOR TO IMPLEMENTING ANY CLOSURES.
14. CONTRACTORS SHALL PROVIDE SIGNS AT EACH DRIVEWAY LOCATION 24 HOURS IN ADVANCE OF THE WORK INFORMING THE PUBLIC OF WHEN THE DRIVEWAY WILL BE CLOSED. WHILE THE WORK IS BEING PERFORMED, CONTRACTOR SHALL PROVIDE SIGNS INFORMING PUBLIC THAT BUSINESS IS OPEN.



CLASS A SIGNS



CLASS B SIGNS

otak
 Hanmi Global Partner
 700 Washington Street
 Suite 401
 Vancouver, WA 98660
 Phone: (360) 737-9913
 FAX: (360) 737-9851
 www.otak.com

Exp. 10-28-10
 KENNETH M. A. CHAPMAN
 STATE OF WASHINGTON
 58983
 REGISTERED
 PROFESSIONAL ENGINEER

REVISION	DATE	DESCRIPTION	BY
JOB No.	13564E		
Designed By:	MAK		
Drawn By:	NAR		
Checked By:	KMA		
DATE:	10/30/2015		
SCALE:	AS SHOWN		
DWG No.:	TCP01		

WEST MAIN STREET REVITALIZATION PROJECT TRAFFIC CONTROL PLAN DETAILS		 CITY OF KELSO PUBLIC WORKS DEPARTMENT 203 S. PACIFIC AVE. SUITE 205 KELSO, WA 98626	SHEET NUMBER 49 of 57

MINIMUM LANE CLOSURE TAPER LENGTH = L (feet)										
LANE WIDTH (feet)	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
10	105	150	205	270	450	500	550	-	-	-
11	115	165	225	295	495	550	605	660	-	-
12	125	180	245	320	540	600	660	720	780	840

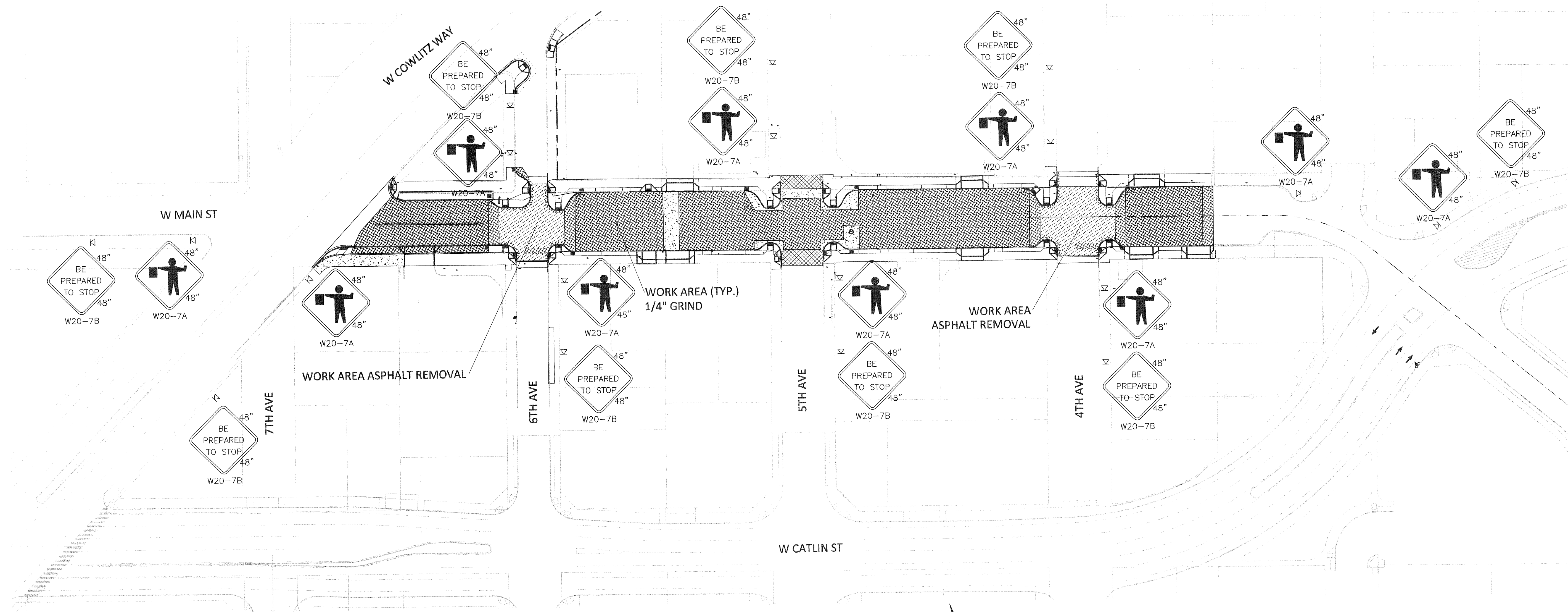
MINIMUM SHOULDER TAPER LENGTH = L/3 (feet)											
SHOULDER WIDTH (feet)	Posted Speed (mph)										
	25	30	35	40	45	50	55	60	65	70	
8'	40	40	60	90	120	130	150	160	170	190	
10'	40	60	90	90	150	170	190	200	220	240	

USE A MINIMUM 3 DEVICES TAPER FOR SHOULDER LESS THEN 8'.

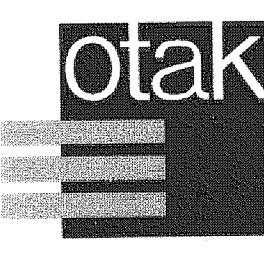
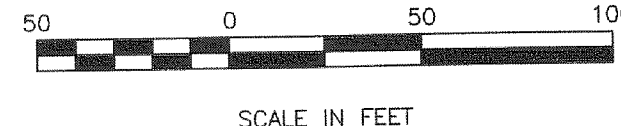
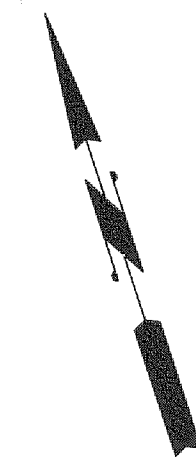
SIGN SPACING = X (1)		
FREeways & EXPRESSWAYS	55 / 70 MPH	1500' □
RURAL HIGHWAYS	60 / 65 MPH	800' □
RURAL ROADS	45 / 55 MPH	500' □
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' □
RURAL ROADS & URBAN ARTERIALS	25 / 30 MPH	200' □ (2)
RESIDENTIAL & BUSINESS DISTRICTS		
URBAN STREETS	25 MPH OR LESS	100' □ (2)

(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMPS, AT-GRADE INTERSECTIONS AND DRIVEWAYS.
(2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

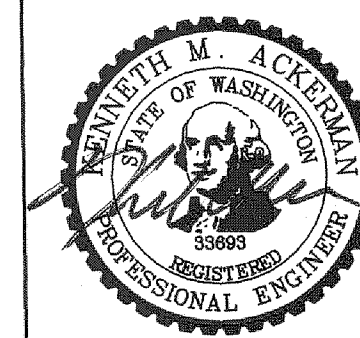
CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
50/70	40	80
35/45	30	60
25/30	20	40



PHASE 1



Hanmi Global Partner
700 Washington Street
Suite 401
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FAX: (360) 737-9651
www.otak.com



Exp. 10-25-16

REVISION	DATE	DESCRIPTION	BY
JOB No.	13564E		
Designed By:	MAK		
Drawn By:	NAR		
Checked By:	KMA		
DATE:	10/30/2015		
SCALE:	AS SHOWN		
DWG NO.:	TCPO2		

**WEST MAIN STREET
REVITALIZATION PROJECT
TRAFFIC CONTROL PLAN**

CITY OF KELSO
PUBLIC WORKS DEPARTMENT
203 S. PACIFIC AVE. SUITE 205
KELSO, WA 98626

SHEET NUMBER
50 of 57

NOTES

- PHASE 1 SHOWS EXISTING ASPHALT REMOVAL AND 1/4" PCC GRINDING.
- NO SEPARATE PAYMENT WILL BE MADE FOR PCC GRINDING IN AREAS OF RAISED INTERSECTIONS.
- WHEN FLAGGING IS REQUIRED AT WEST COWLITZ WAY AND WEST MAIN STREET, THE SIGNAL WILL BE TURNED OFF AND ALL FOUR LEGS WILL BE FLAGGED.

LEGEND

- FLAGGING STATION
- TEMPORARY SIGN LOCATION
- CHANNELIZING DEVICES
- PROTECTIVE VEHICLE
- WORK AREA
- TYPE III BARRICADE

Mar 23, 2016 - 1:47pm
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MINIMUM LANE CLOSURE TAPER LENGTH = L (feet)										
LANE WIDTH (feet)	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
10	105	150	205	270	450	500	550	-	-	-
11	115	165	225	295	495	550	605	660	-	-
12	125	180	245	320	540	600	660	720	780	840

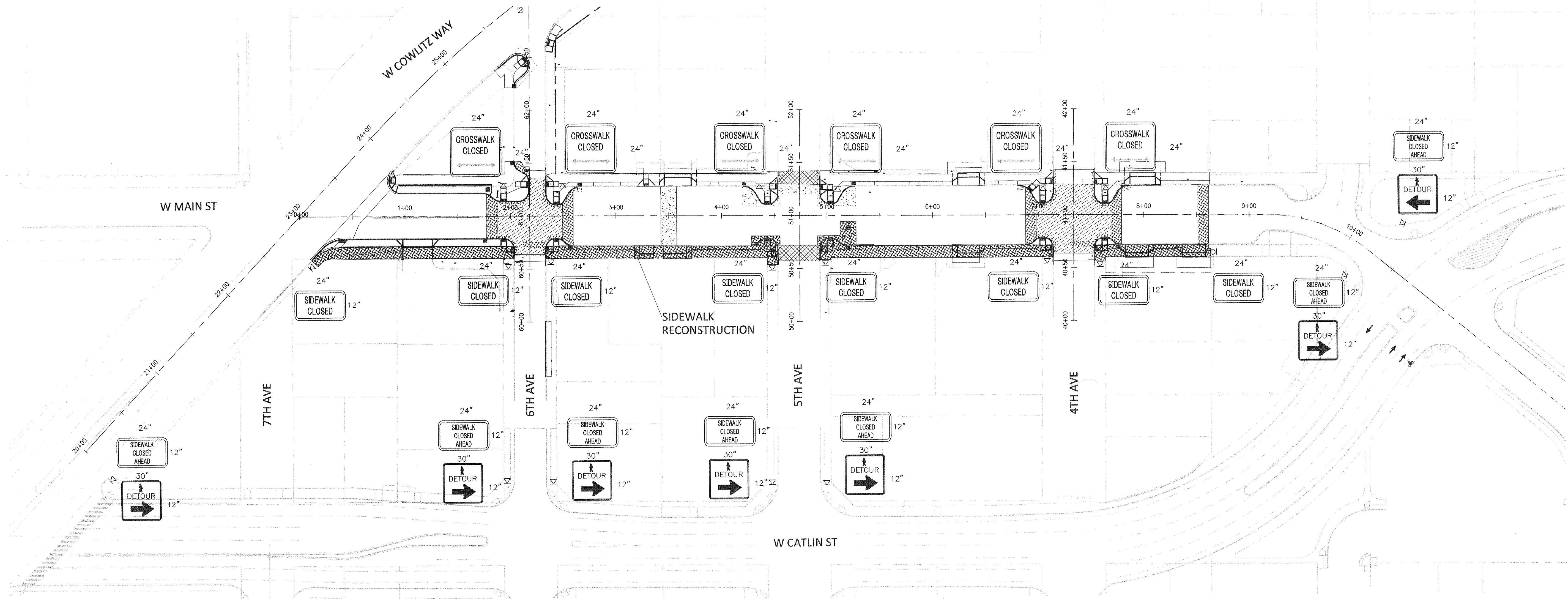
MINIMUM SHOULDER TAPER LENGTH = L/3 (feet)											
SHOULDER WIDTH (feet)	Posted Speed (mph)										
	25	30	35	40	45	50	55	60	65	70	
8'	40	40	60	90	120	130	150	160	170	190	
10'	40	60	90	90	150	170	190	200	220	240	

USE A MINIMUM 3 DEVICES TAPER FOR SHOULDER LESS THEN 8'.

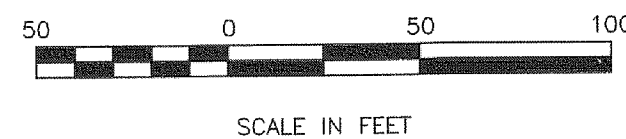
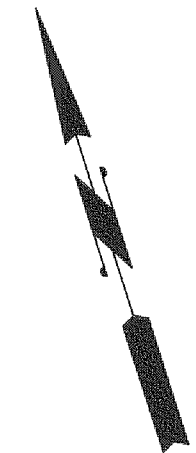
SIGN SPACING = X (1)		
FREEWAYS & EXPRESSWAYS	55 / 70 MPH	1500' □
RURAL HIGHWAYS	60 / 65 MPH	800' □
RURAL ROADS	45 / 55 MPH	500' □
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' □
RURAL ROADS & URBAN ARTERIALS	25 / 30 MPH	200' □ (2)
RESIDENTIAL & BUSINESS DISTRICTS		
URBAN STREETS	25 MPH OR LESS	100' □ (2)

(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMP, AT-GRADE INTERSECTIONS AND DRIVEWAYS.
(2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
50/70	40	80
35/45	30	60
25/30	20	40



PHASE 2

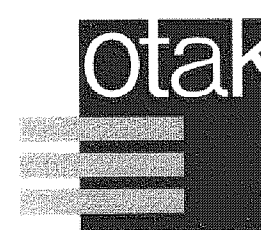


LEGEND

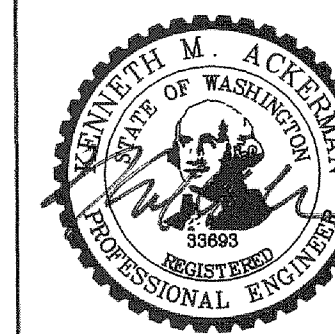
- FLAGGING STATION
- TEMPORARY SIGN LOCATION
- CHANNELIZING DEVICES
- PROTECTIVE VEHICLE
- WORK AREA
- TYPE III BARRICADE

NOTES

1. PHASE I SHOWS EXISTING ASPHALT REMOVAL AND 1/4" PCC GRINDING.
2. NO SEPARATE PAYMENT WILL BE MADE FOR PCC GRINDING IN AREAS OF RAISED INTERSECTIONS.
3. WHEN FLAGGING IS REQUIRED AT WEST COWLITZ WAY AND WEST MAIN STREET, THE SIGNAL WILL BE TURNED OFF AND ALL FOUR LEGS WILL BE FLAGGED.



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REVISION	DATE	DESCRIPTION	BY
JOB No.	13564E		
Designed By:	MAK		
Drawn By:	NAR		
Checked By:	KMA		
DATE:	10/30/2015		
SCALE:	AS SHOWN		
DWG NO.:	TCP03		

**WEST MAIN STREET
REVITALIZATION PROJECT**

TRAFFIC CONTROL PLAN

CITY OF KELSO
PUBLIC WORKS DEPARTMENT
203 S. PACIFIC AVE. SUITE 205
KELSO, WA 98626

SHEET NUMBER
51 of 57

MINIMUM LANE CLOSURE TAPER LENGTH = L (feet)										
LANE WIDTH (feet)	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
10	105	150	205	270	450	500	550	-	-	-
11	115	165	225	295	495	550	605	660	-	-
12	125	180	245	320	540	600	660	720	780	840

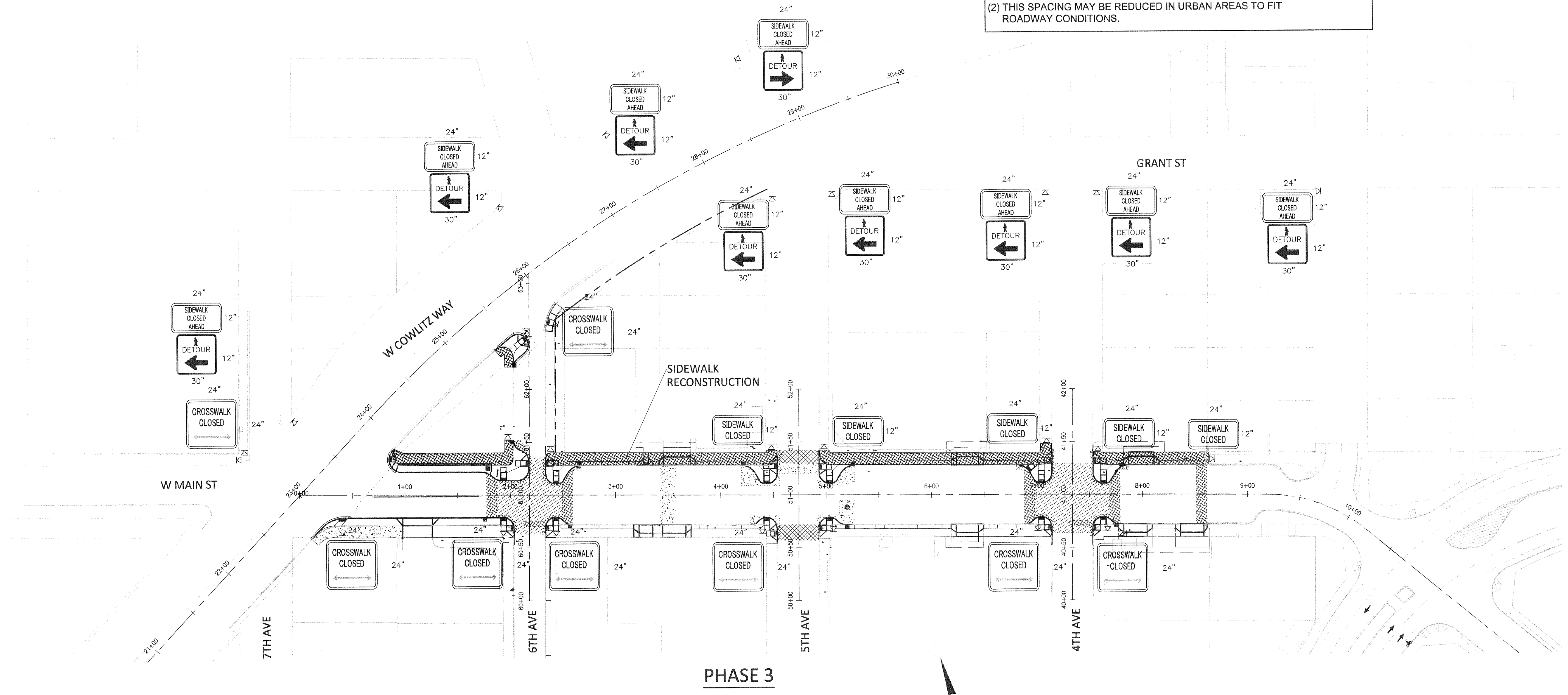
MINIMUM SHOULDER TAPER LENGTH = L/3 (feet)											
SHOULDER WIDTH (feet)	Posted Speed (mph)										
	25	30	35	40	45	50	55	60	65	70	
8'	40	40	60	90	120	130	150	160	170	190	
10'	40	60	90	90	150	170	190	200	220	240	

USE A MINIMUM 3 DEVICES TAPER FOR SHOULDER LESS THEN 8'.

SIGN SPACING = X (1)		
FREEWAYS & EXPRESSWAYS	55 / 70 MPH	1500' (1)
RURAL HIGHWAYS	60 / 65 MPH	800' (1)
RURAL ROADS	45 / 55 MPH	500' (1)
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' (1)
RURAL ROADS & URBAN ARTERIALS	25 / 30 MPH	200' (2)
RESIDENTIAL & BUSINESS DISTRICTS		
URBAN STREETS	25 MPH OR LESS	100' (2)

(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMP, AT-GRADE INTERSECTIONS AND DRIVEWAYS.
(2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
50/70	40	80
35/45	30	60
25/30	20	40



PHASE 3

- LEGEND**
- FLAGGING STATION
 - ⊠ TEMPORARY SIGN LOCATION
 - ▭ CHANNELIZING DEVICES
 - ▭ PROTECTIVE VEHICLE
 - ▭ WORK AREA
 - ▭ TYPE III BARRICADE

- NOTES**
1. PHASE I SHOWS EXISTING ASPHALT REMOVAL AND 1/4" PCC GRINDING.
 2. NO SEPARATE PAYMENT WILL BE MADE FOR PCC GRINDING IN AREAS OF RAISED INTERSECTIONS.
 3. WHEN FLAGGING IS REQUIRED AT WEST COWLITZ WAY AND WEST MAIN STREET, THE SIGNAL WILL BE TURNED OFF AND ALL FOUR LEGS WILL BE FLAGGED.

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www.otak.com



REVISION	DATE	DESCRIPTION	BY
JOB No.	13564E		
Designed By:	MAK		
Drawn By:	NAR		
Checked By:	KMA		
DATE:	10/30/2015		
SCALE:	AS SHOWN		
DWG NO.:	TCP04		

WEST MAIN STREET REVITALIZATION PROJECT
TRAFFIC CONTROL PLAN

CITY OF KELSO
PUBLIC WORKS DEPARTMENT
203 S. PACIFIC AVE. SUITE 205
KELSO, WA 98626

SHEET NUMBER
52 of 57

Mar 23, 2016 - 1:48pm
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MINIMUM LANE CLOSURE TAPER LENGTH = L (feet)										
LANE WIDTH (feet)	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
10	105	150	205	270	450	500	550	-	-	-
11	115	165	225	295	495	550	605	660	-	-
12	125	180	245	320	540	600	660	720	780	840

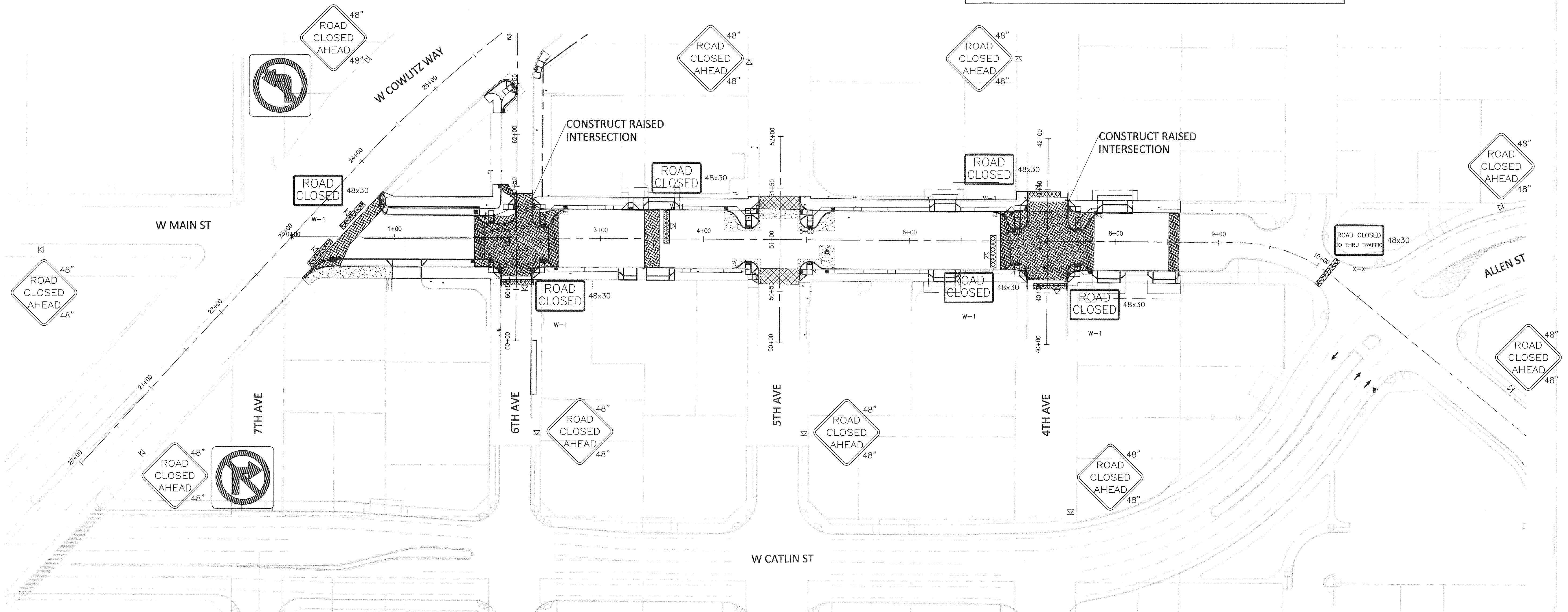
MINIMUM SHOULDER TAPER LENGTH = L/3 (feet)										
SHOULDER WIDTH (feet)	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
8'	40	40	60	90	120	130	150	160	170	190
10'	40	60	90	90	150	170	190	200	220	240

USE A MINIMUM 3 DEVICES TAPER FOR SHOULDER LESS THEN 8'.

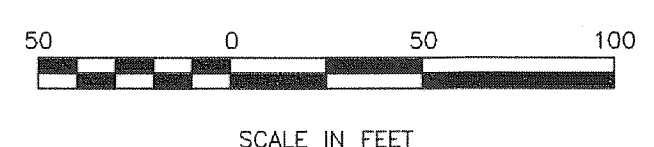
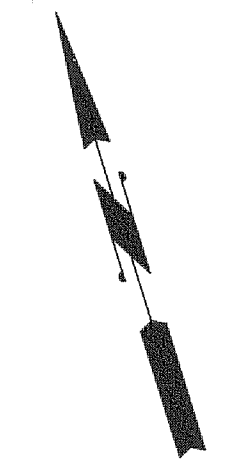
SIGN SPACING = X (1)		
FREEWAYS & EXPRESSWAYS	55 / 70 MPH	1500' □
RURAL HIGHWAYS	60 / 65 MPH	800' □
RURAL ROADS	45 / 55 MPH	500' □
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' □
RURAL ROADS & URBAN ARTERIALS	25 / 30 MPH	200' □ (2)
RESIDENTIAL & BUSINESS DISTRICTS		
URBAN STREETS	25 MPH OR LESS	100' □ (2)

(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMPS, AT-GRADE INTERSECTIONS AND DRIVEWAYS.
(2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
50/70	40	80
35/45	30	60
25/30	20	40



PHASE 4



- LEGEND**
- FLAGGING STATION
 - ⊠ TEMPORARY SIGN LOCATION
 - CHANNELIZING DEVICES
 - ▭ PROTECTIVE VEHICLE
 - ▨ WORK AREA
 - ▩ TYPE III BARRICADE

NOTES

1. PHASE I SHOWS EXISTING ASPHALT REMOVAL AND 1/4" PCC GRINDING.
2. NO SEPARATE PAYMENT WILL BE MADE FOR PCC GRINDING IN AREAS OF RAISED INTERSECTIONS.
3. WHEN FLAGGING IS REQUIRED AT WEST COWLITZ WAY AND WEST MAIN STREET, THE SIGNAL WILL BE TURNED OFF AND ALL FOUR LEGS WILL BE FLAGGED.

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Phone: (360) 737-9613
FAX: (360) 737-9651
www.otak.com

Exp. 10-28-16

REVISION	DATE	DESCRIPTION	BY
JOB No.	13564E		
Designed By:	MAK		
Drawn By:	NAR		
Checked By:	KMA		
DATE:	10/30/2015		
SCALE:	AS SHOWN		
DWG NO.:	TCP05		

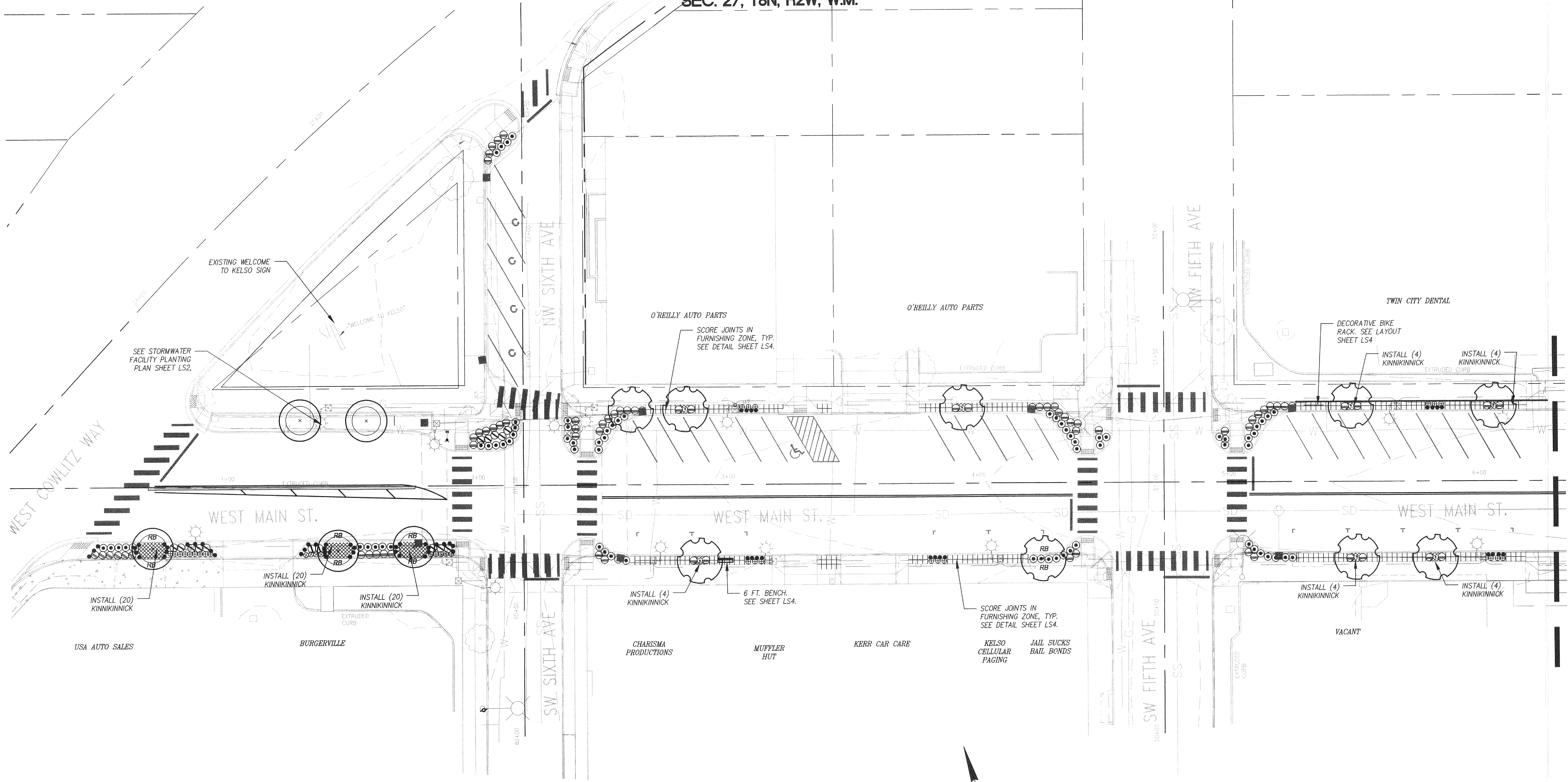
**WEST MAIN STREET
REVITALIZATION PROJECT
TRAFFIC CONTROL PLAN**

CITY OF KELSO
PUBLIC WORKS DEPARTMENT
203 S. PACIFIC AVE. SUITE 205
KELSO, WA 98626

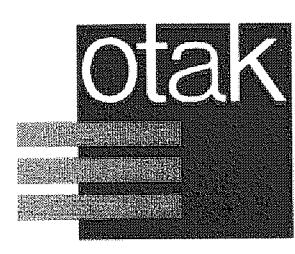
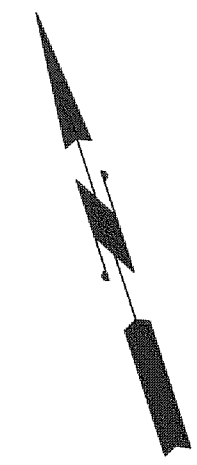
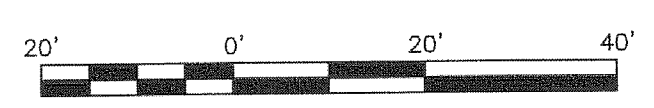
SHEET NUMBER
53 of 57

Mar 23, 2016 - 1:48pm
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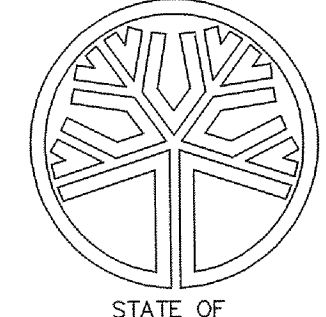
SEC. 27, T8N, R2W, W.M.



NOTES:
 1. ALL LANDSCAPED AREAS SHALL BE WATERED BY A FULLY AUTOMATIC UNDERGROUND IRRIGATION SYSTEM.
 2. SEE SHEET LS2 FOR LANDSCAPE LEGEND.



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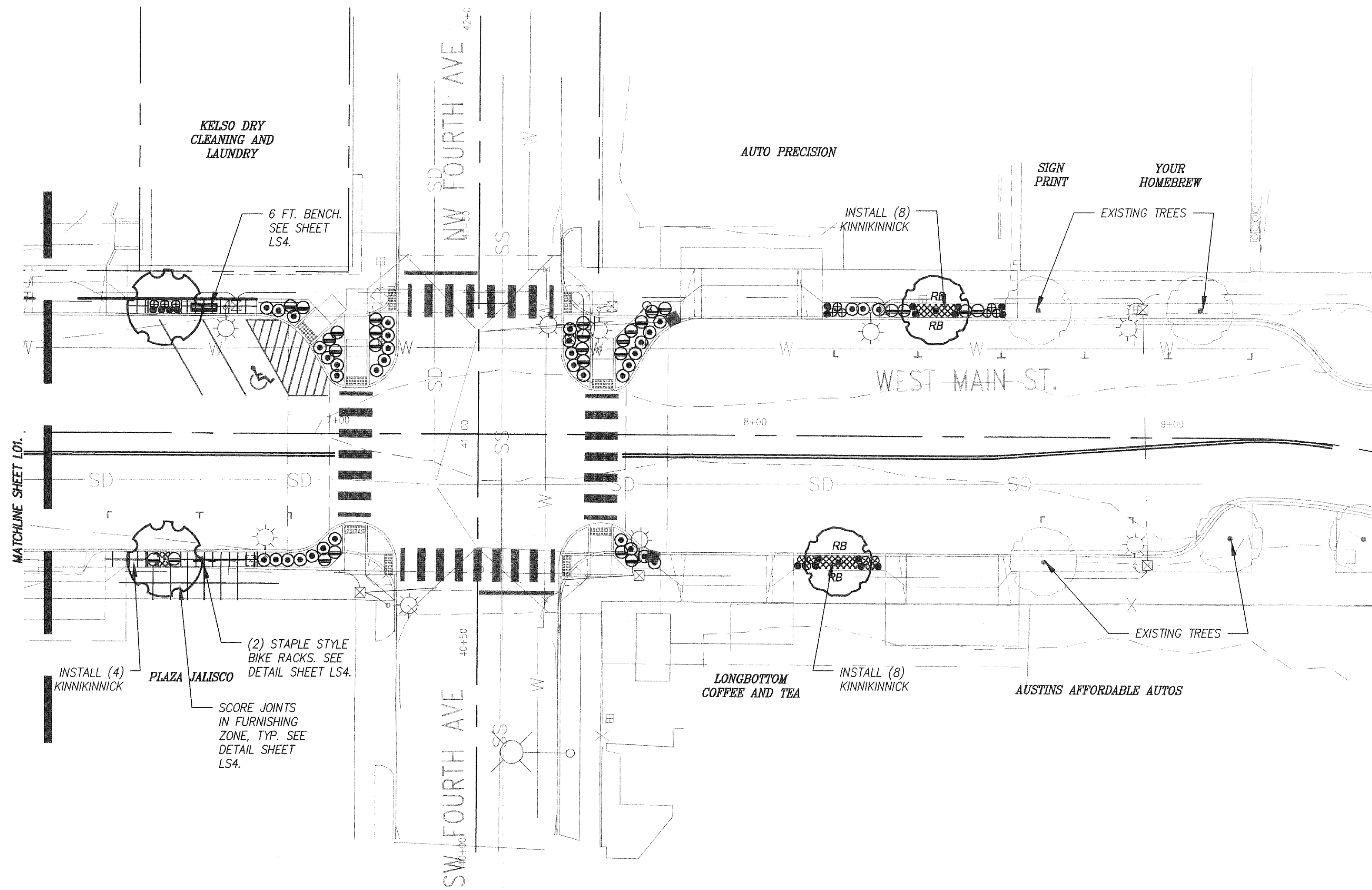


STATE OF WASHINGTON
 REGISTERED
 LANDSCAPE ARCHITECT
 DAVID D. HAYNES
 CERTIFICATE NO. 824
 BXP 1/21/17

REVISION	DATE	DESCRIPTION	BY
JOB No.	13564E	WEST MAIN STREET REVITALIZATION PROJECT LANDSCAPE PLAN	
Designed By:			
Drawn By:			
Checked By:	KMA		
DATE:	10/30/2015	CITY OF KELSO PUBLIC WORKS DEPARTMENT 203 S. PACIFIC AVE. SUITE 205 KELSO, WA 98626	
SCALE:	AS SHOWN		
DWG NO.:	LS1		
			SHEET NUMBER 54 of 57

Mar 21, 2016 - 10:23am
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SEC. 27, T8N, R2W, W.M.



STREETSCAPE PLANTING LEGEND

TREES

SYMBOL	QTY	COMMON NAME / Botanical name:	Size and descr.	Spacing
	2	PAPERBARK MAPLE / <i>Acer griseum</i>	2" CAL.	AS SHOWN
	5	BLACK TUPELO / <i>Nyssa sylvatica</i>	2" CAL.	AS SHOWN
	11	MCSENTRY LINDEN / <i>Tilia americana 'McSentry' (columnar)</i>	2" CAL.	AS SHOWN

SHRUBS AND GROUNDCOVERS

SYMBOL	COMMON NAME / Botanical name:	Size and descr.	Spacing
	48 HELLER'S HOLLY / <i>Ilex crenata 'Helleri'</i>	1 GAL.	3' O.C.
	110 CORAL FLOWER CARPET ROSE / <i>Rosa 'Floral Carpet Coral'</i>	1 GAL.	3' O.C.
	101 BALLEERINA RHAPHIOLEPIS / <i>Rhaphiolepis indica 'Ballerina'</i>	2 GAL.	4' O.C.
	15 DAVID VIBURNUM / <i>Viburnum davidii</i>	1 GAL.	3' O.C.
	79 STELLA DE ORO DAY LILY / <i>Hemerocallis 'Stella de Oro'</i>	1 GAL.	3' O.C.
	100 KINNIKINNICK / <i>ARCTOSTAPHYLOS UVA-URSI</i>	1 GAL.	2' O.C.

FURNISHINGS

SYMBOL	QTY	DESCRIPTION
	2	6' METAL BENCH
	1	DECORATIVE BIKE RACK
	2	STAPLE BIKE RACKS
	RB	24" DEPTH ROOT BARRIER

1) INSTALL 12' LENGTH WHERE SHOWN.
2) INSTALL ALONG ALL 4 EDGES OF TREETWELLS WHERE TREES ARE ALSO INSTALLED.

STORM FACILITY LEGEND

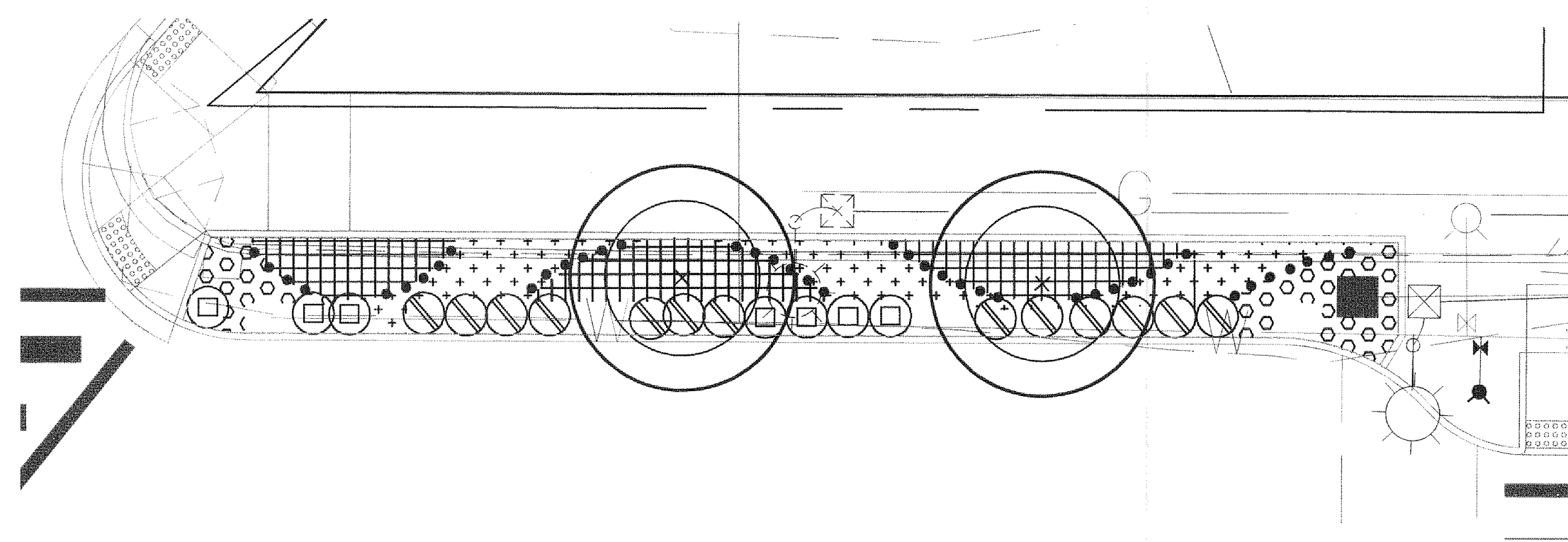
GRASSES AND ORNAMENTALS

SYMBOL	QTY	COMMON NAME / Botanical name	Size	Spacing
	212	DAGGER LEAF RUSH / <i>Juncus ensifolius</i>	4" POTS	1' o.c.
	177	SLOUGH SEDGE / <i>Carex obnupta</i>	4" POTS	1' o.c.
	103	SMALL FRUITED BULRUSH / <i>Scirpus microcarpus</i>	4" POTS	1' o.c.
	129	GREAT CAMAS LILY / <i>Camassia leichtlinii (Group of 3 bulbs)</i>	1/2" Bulb	1' o.c.

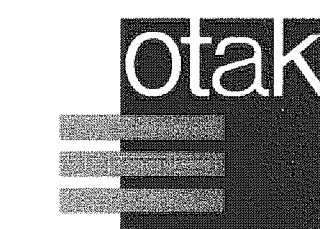
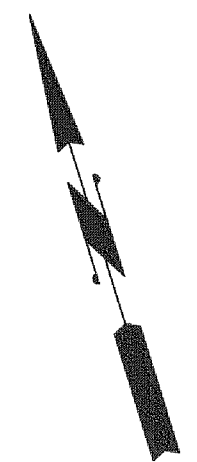
TREES AND SHRUBS

SYMBOL	QTY	COMMON NAME / Botanical name	Size	Spacing
		BLACK TUPELO / <i>Nyssa sylvatica</i> (NOTE: Total quantity listed on Streetscape Planting Legend.)	2" CAL.	AS SHOWN
	13	KELSEY REDTWIG DOGWOOD / <i>Cornus sericea var. 'Kelseyi'</i>	1 GAL.	AS SHOWN
	11	BIRCH LEAF SPIREA / <i>Spiraea betulifolia var. Lucida</i>	1 GAL.	AS SHOWN

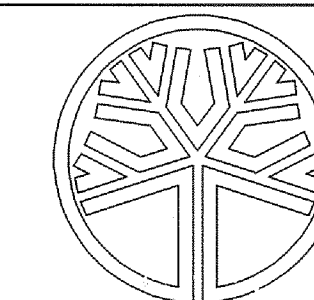
STORMWATER PLANTER PLANTING PLAN



NOTES:
1. ALL LANDSCAPED AREAS SHALL BE WATERED BY A FULLY AUTOMATIC UNDERGROUND IRRIGATION SYSTEM.
2. SEE SHEET L02 FOR LANDSCAPE LEGEND.

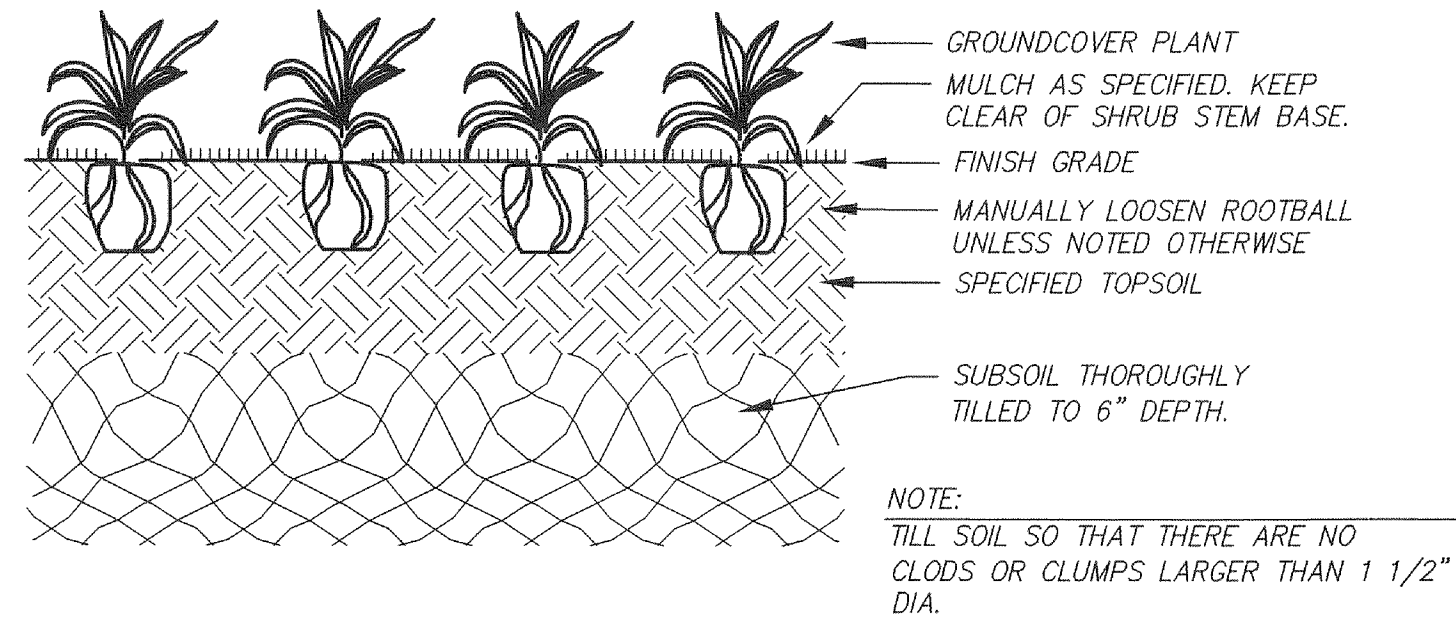


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STATE OF WASHINGTON
REGISTERED
LANDSCAPE ARCHITECT
DAVID D. HAYNES
CERTIFICATE NO. 824
E&P 1/24/17

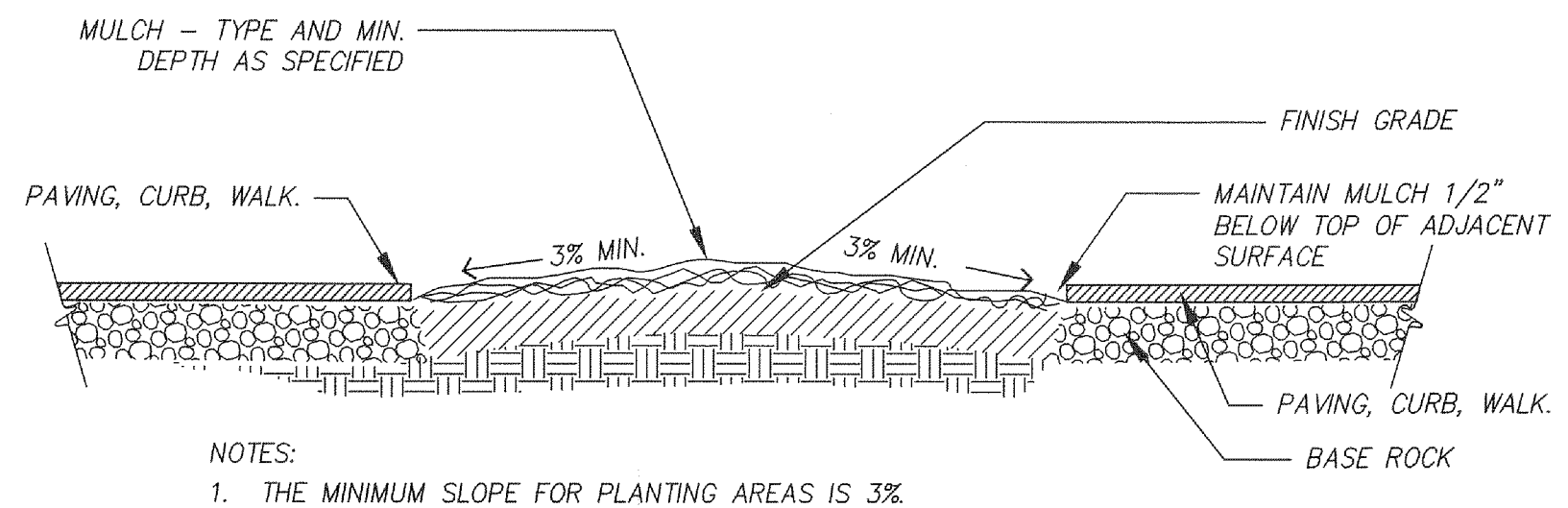
REVISION	DATE	DESCRIPTION	BY
JOB No.	13564E	WEST MAIN STREET REVITALIZATION PROJECT LANDSCAPE PLAN AND LEGEND	
Designed By:			
Drawn By:			
Checked By:	KMA		
DATE:	10/30/2015	CITY OF KELSO PUBLIC WORKS DEPARTMENT 203 S. PACIFIC AVE. SUITE 205 KELSO, WA 98626	SHEET NUMBER 55 of 57
SCALE:	AS SHOWN		
DWG NO.:	LS2		



GROUNDCOVER PLANTING DETAIL

4
LS3

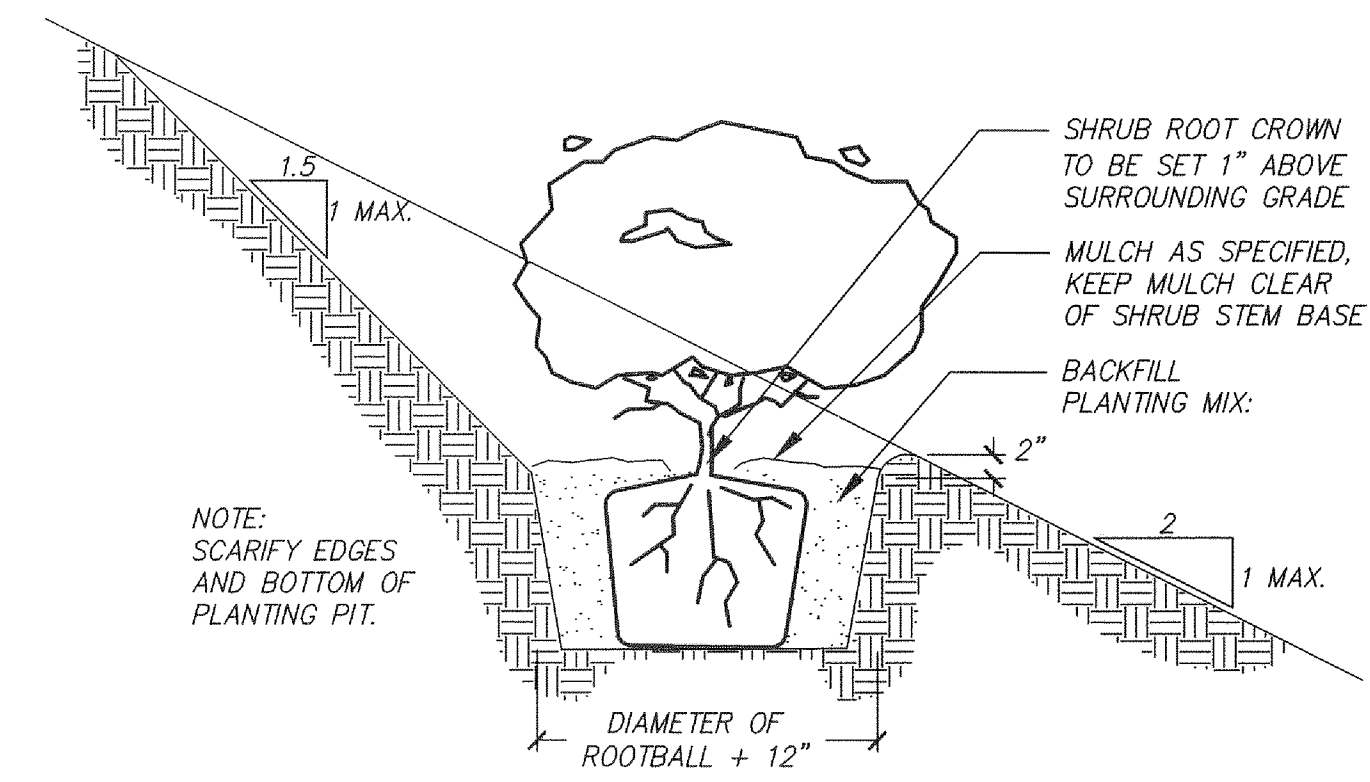
SCALE: N.T.S.



SECTION - PLANTING BED GRADING

3
LS3

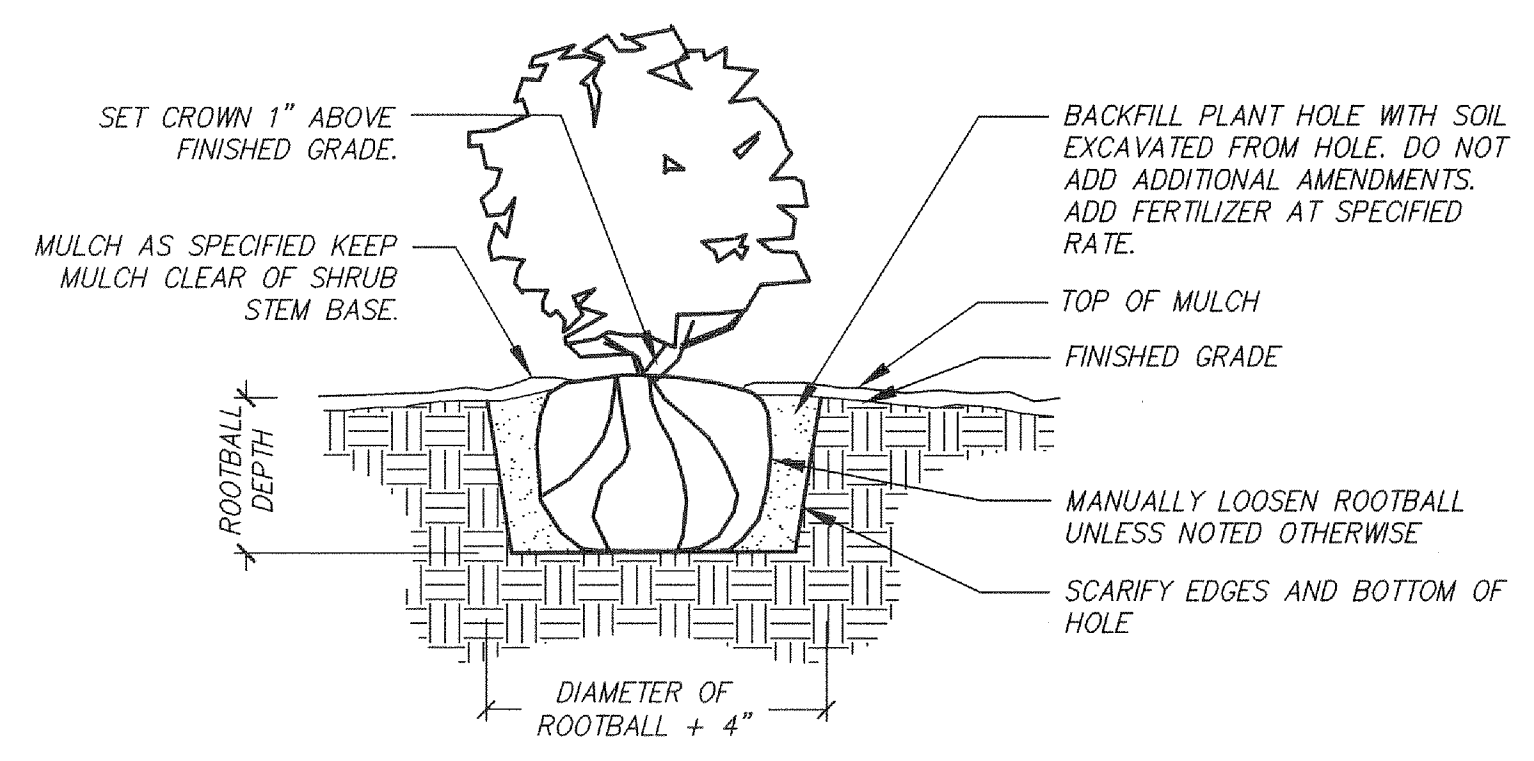
SCALE: N.T.S.



TREE/SHRUB PLANTING ON SLOPE

6
LS3

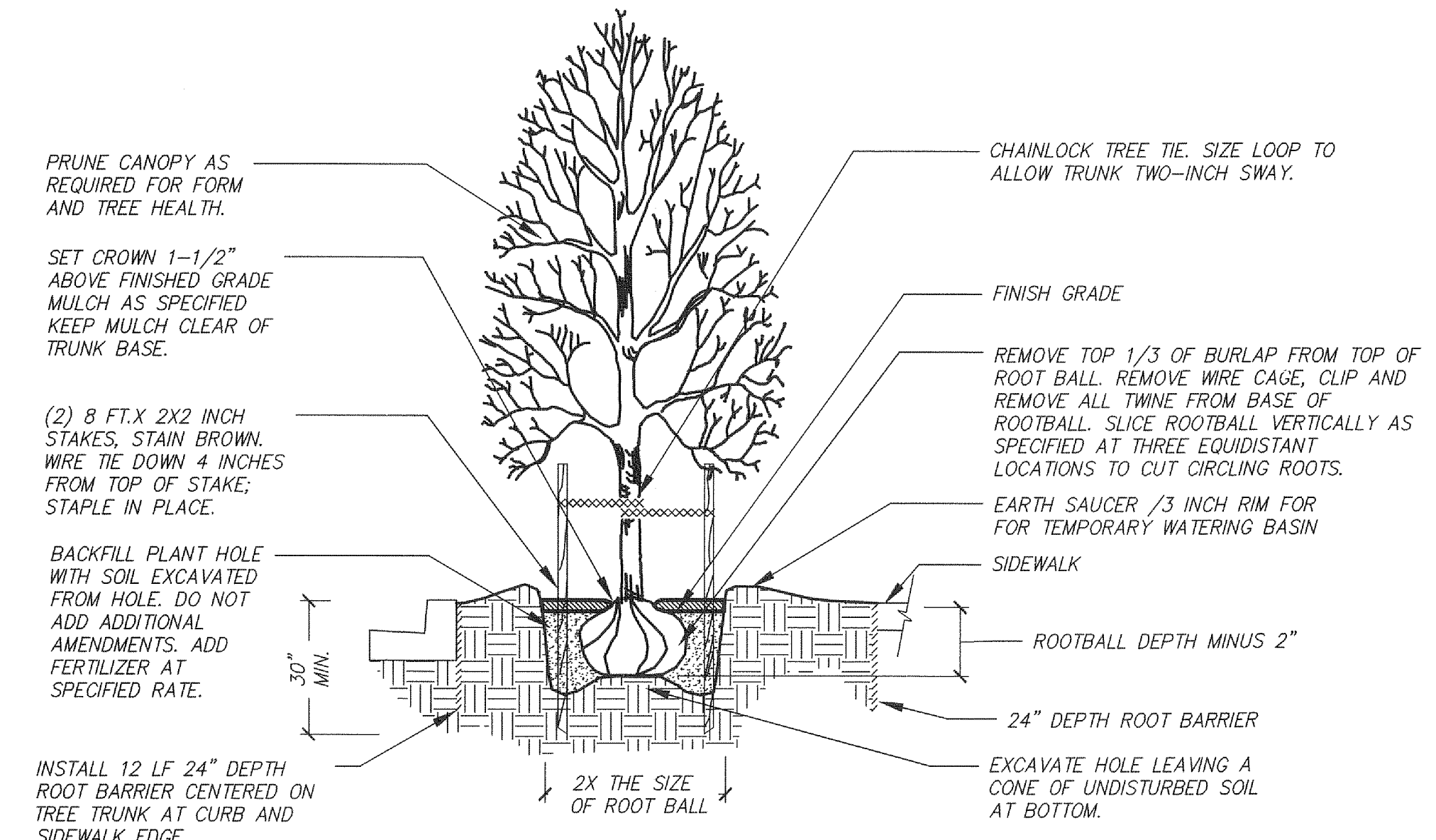
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SHRUB PLANTING DETAIL

5
LS3

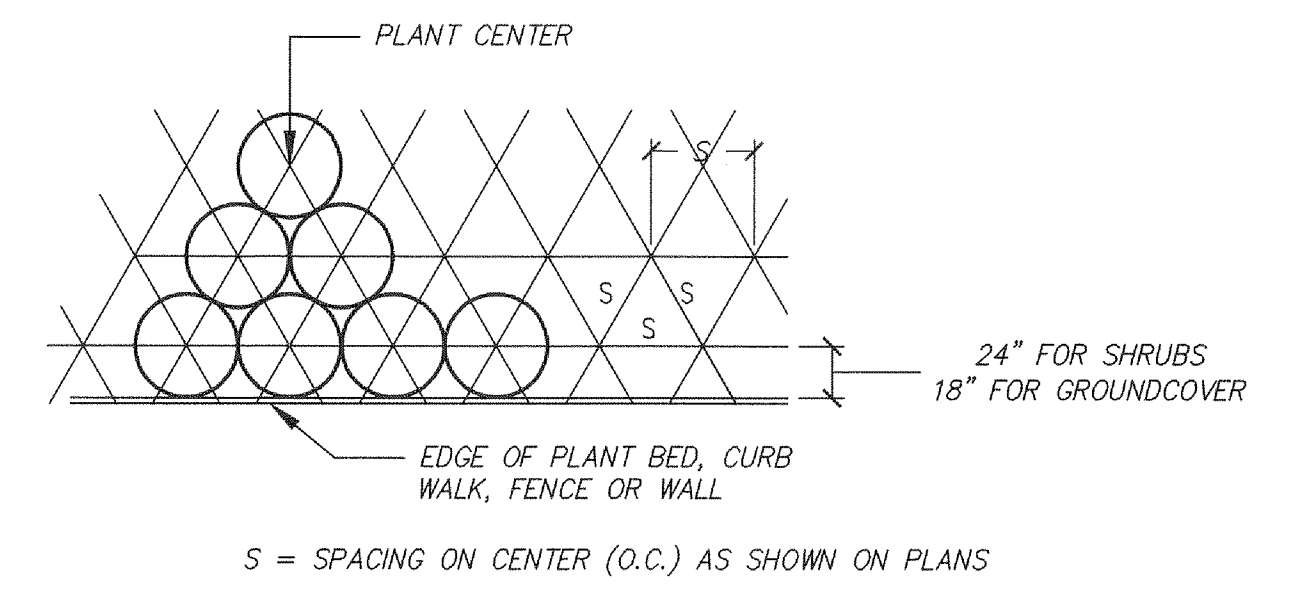
SCALE: N.T.S.



TREE PLANTING WITH ROOT BARRIER

2
LS3

SCALE: N.T.S.



PLANT SPACING

1
LS3

SCALE: N.T.S.

UTILITY NOTE:

CONTRACTOR IS CAUTIONED THAT EXISTING UNDERGROUND FACILITIES OCCUR THROUGHOUT THE WORK AREAS INCLUDING BUT NOT LIMITED TO POWER, GAS, TELEPHONE, WATER SUPPLY, AND IRRIGATION. CONTRACTOR SHALL MARK THE FACILITIES BEFORE WORK, POTHOLE WHERE NECESSARY, AND PROTECT DURING CONSTRUCTION. IMMEDIATELY NOTIFY OWNER'S REPRESENTATIVE IF ANY CONFLICTS ARE FOUND.

LANDSCAPE NOTES:

- GENERAL: SEVERAL OF THE FOLLOWING NOTES SUMMARIZE THE PROJECT SPECIFICATIONS FOR THE CONTRACTORS CONVENIENCE. IF A DISCREPANCY EXISTS BETWEEN THESE NOTES AND THE PROJECT SPECIFICATIONS THE SPECIFICATIONS SHALL OVERRIDE.
- THE LANDSCAPE CONTRACTOR IS TO THOROUGHLY REVIEW THE SITE. IF THERE ARE ANY DISCREPANCIES BETWEEN THE PLAN AND THE EXISTING CONDITIONS THE OWNERS REPRESENTATIVE IS TO BE NOTIFIED IMMEDIATELY.
- IF THE LANDSCAPE CONTRACTOR STARTS WORK BEFORE SITE CONDITIONS ARE READY OR CONTINUES WORK IN ADVERSE CONDITIONS WITHOUT PRIOR APPROVAL THEY WILL BE RESPONSIBLE FOR ANY ADDITIONAL COSTS RELATING TO THE CONDITION.
- IMMEDIATELY NOTIFY OWNERS REPRESENTATIVE CONCERNING ANY CONDITION AT ANY TIME DURING CONSTRUCTION THAT IS DETRIMENTAL TO THE HEALTH AND VIGOROUS GROWTH OF THE SPECIFIED PLANT MATERIAL.
- PROVIDE QUANTITY OF PLANT MATERIAL INDICATED IN PLANT LIST OR THE QUANTITY REQUIRED TO COVER AREAS INDICATED AT SPECIFIED SPACING, WHICHEVER IS GREATER.
- IF AN AREA DIFFERS SIGNIFICANTLY IN SIZE FROM THAT SCALED ON DRAWING AND REQUIRES MORE OR LESS MATERIAL THE OWNERS REPRESENTATIVE IS TO BE INFORMED.
- TOPSOIL: 8" DEPTH IMPORT TOPSOIL SHALL BE PREPARED AND AMENDED IN ACCORDANCE WITH THE DETAILS AND SPECIFICATIONS. DO NOT APPLY TOPSOIL AT STORM FACILITIES.
- SOIL ANALYSIS: CONTRACTOR SHALL OBTAIN A COPY OF OWNER-PROVIDED SOIL TEST AND AMEND AND FERTILIZE IN CONFORMANCE WITH RECOMMENDATIONS INDICATED IN THE REPORT.
- COMPOST: APPLY 4 INCH DEPTH SPECIFIED COMPOST OVER ALL PLANTING AREAS EXCEPT STORM FACILITIES. TILL IN TO IMPORT TOPSOIL TO A DEPTH OF 6 INCHES.
- FERTILIZER: APPLY FERTILIZER TO ALL PLANT HOLES AND TURF AREAS OF THE TYPE, QUANTITY, APPLICATION METHOD, AND TIMING NOTED IN THE SPECIFICATIONS. DO NOT APPLY FERTILIZER AT STORM FACILITIES.
- BARK MULCH: SPREAD 3 INCH DEPTH FINE-MEDIUM GRADE FIR/HEMLOCK BARK OVER ALL SHRUB BEDS EXCEPT AT STORM FACILITIES. KEEP BARK CLEAR OF TREE AND SHRUB STEM BASE.
- PLANTING POCKETS: BACK FILL PLANT HOLE WITH SOIL EXCAVATED FROM HOLE. DO NOT ADD ADDITIONAL AMENDMENTS.
- PLANT MATERIAL: ALL PLANT MATERIAL SHALL MEET MINIMUM QUALITY AND SIZE REQUIREMENTS ESTABLISHED IN THE AMERICAN STANDARD FOR NURSERY STOCK GUIDELINES.
- LEAVE PLANT NAME IDENTIFICATION TAGS ON TEN PERCENT OF ALL TREES AND SHRUBS INSTALLED TO AID INSPECTORS IN VERIFYING THAT SPECIFIED PLANTS HAVE BEEN INSTALLED.
- PLANT CENTER OF SHRUBS A MINIMUM OF 24 INCHES FROM ADJACENT PAVING. PLANT CENTER OF GROUND COVERS A MINIMUM OF 18 INCHES FROM ADJACENT PAVING.
- WHERE PLANT BED SLOPE IS LESS THAN 3% MOUND PLANTING BED AREAS 3% MINIMUM FOR POSITIVE DRAINAGE.
- SEE SPECIFICATIONS FOR FINAL INSPECTION, MAINTENANCE, AND WARRANTY REQUIREMENTS UNIQUE TO THIS PROJECT.
- SEE SPECIFICATIONS FOR OTHER LANDSCAPE CONSTRUCTION REQUIREMENTS.

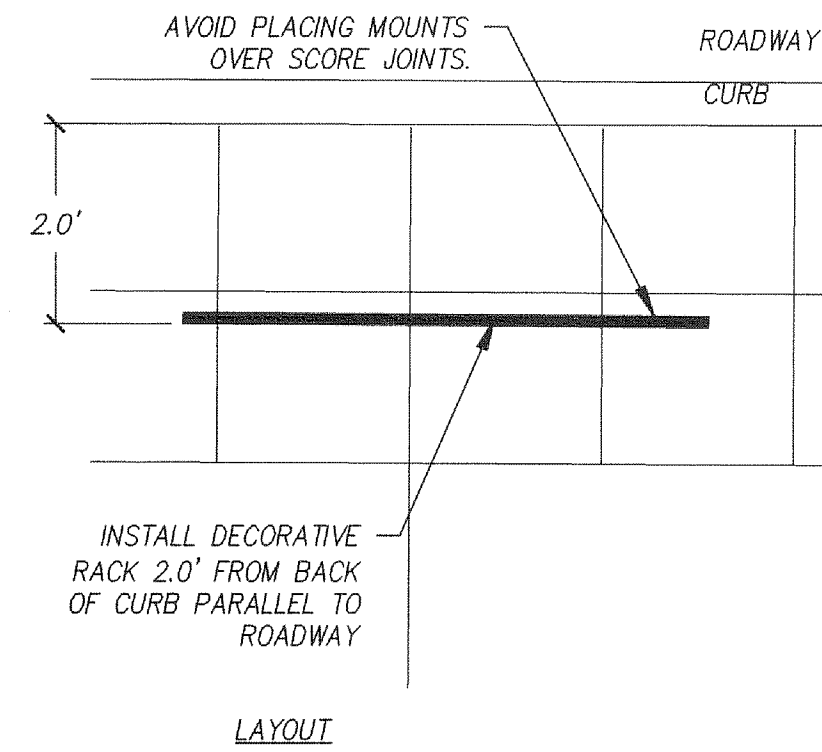
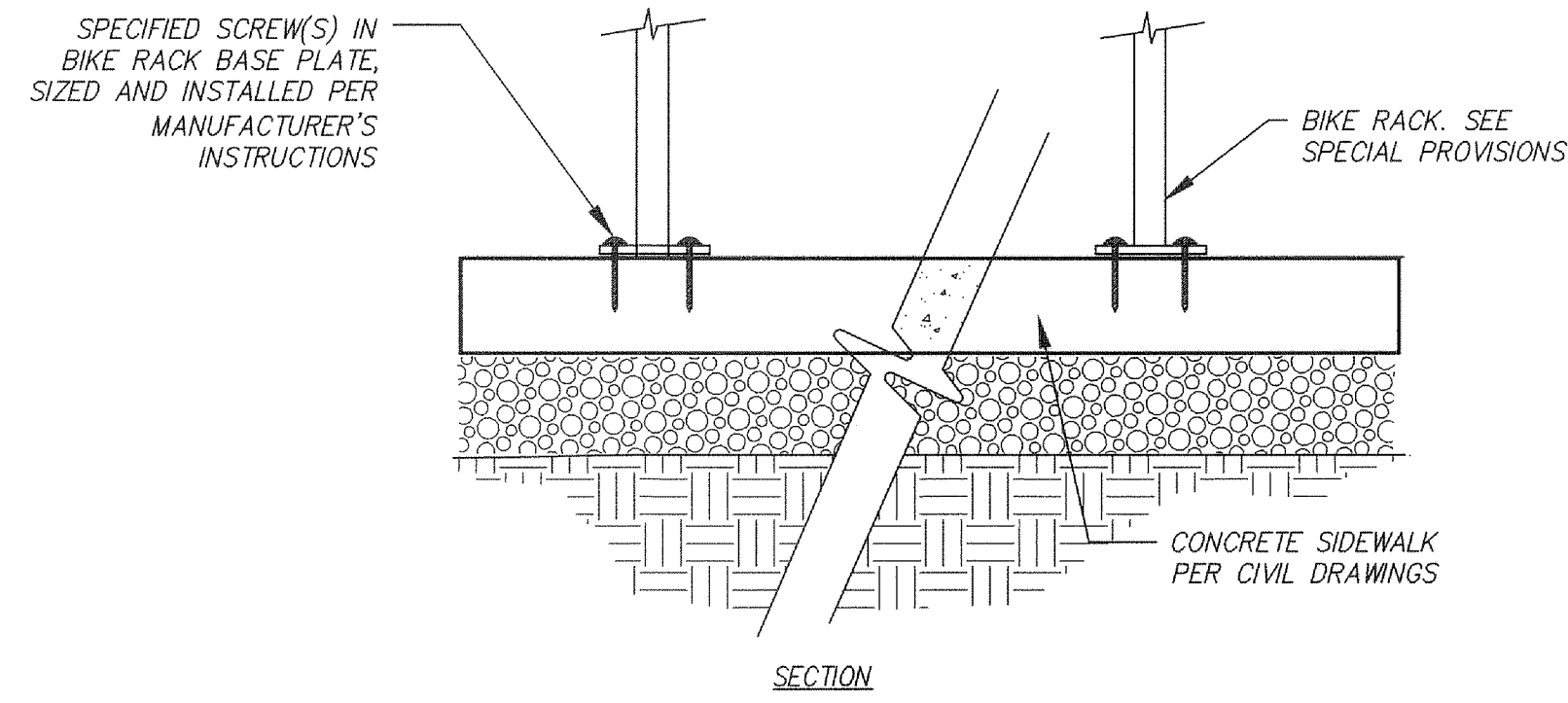
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STATE OF WASHINGTON REGISTERED LANDSCAPE ARCHITECT
DAVID D. HAYNES
CERTIFICATE NO. 824
EXP 1/21/17

REVISION	DATE	DESCRIPTION	BY
JOB No.	13564E	WEST MAIN STREET REVITALIZATION PROJECT PLANTING NOTES AND DETAILS	
Designed By:			
Drawn By:			
Checked By:	KMA		
DATE:	10/30/2015	CITY OF KELSO PUBLIC WORKS DEPARTMENT 203 S. PACIFIC AVE. SUITE 205 KELSO, WA 98626	
SCALE:	AS SHOWN		
DWG NO.:	LS3		
			SHEET NUMBER 56 of 57

Mar 17, 2016 - 2:01pm
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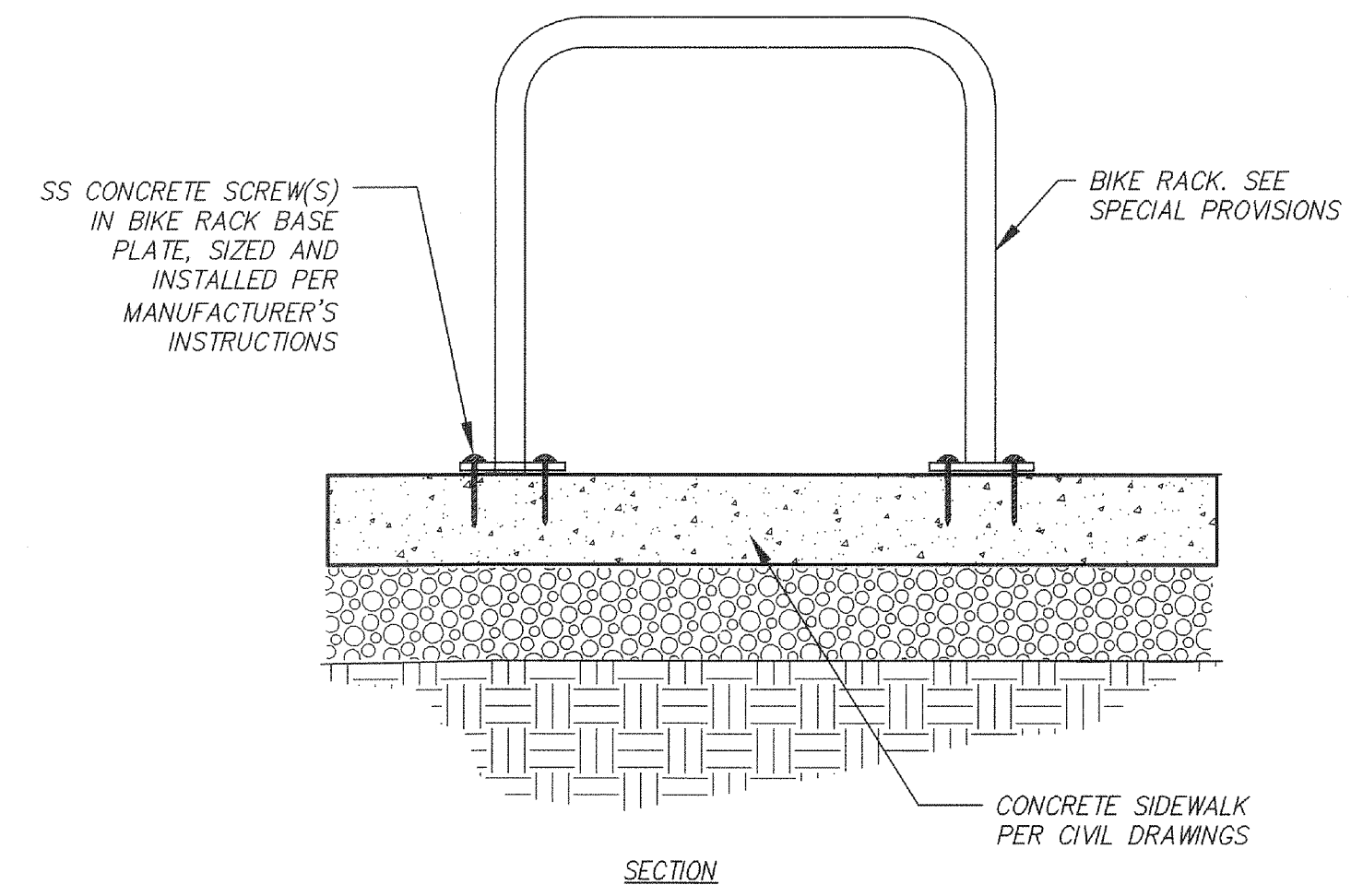
Mar 22, 2016 - 3:52pm
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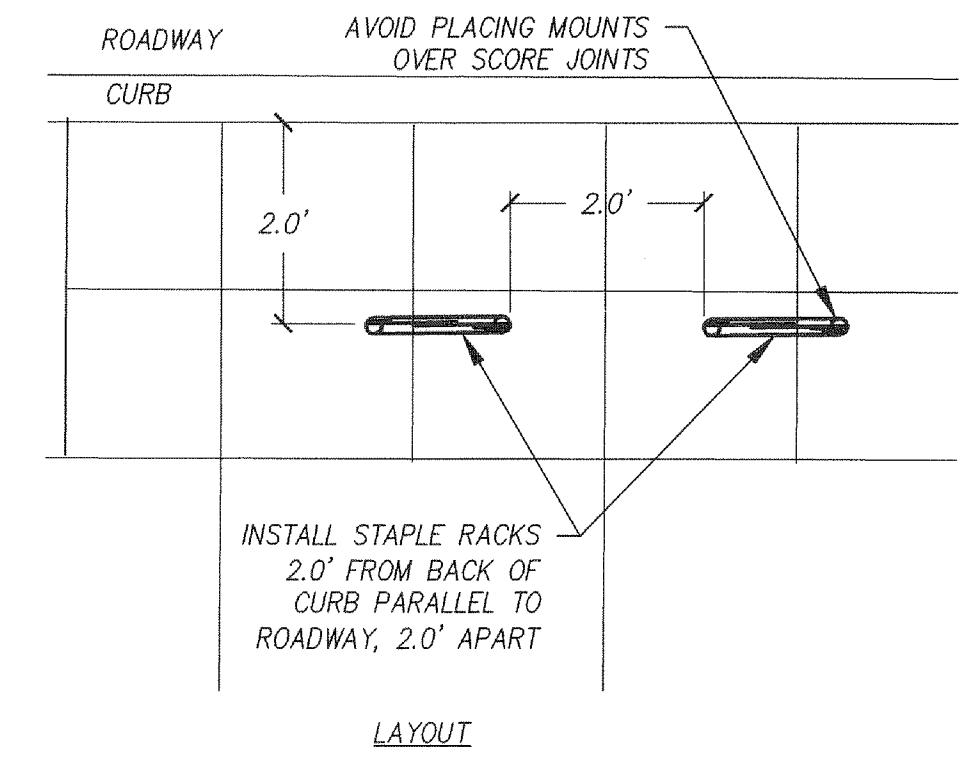
DECORATIVE BIKE RACK INSTALLATION

N.T.S.

4
LS4



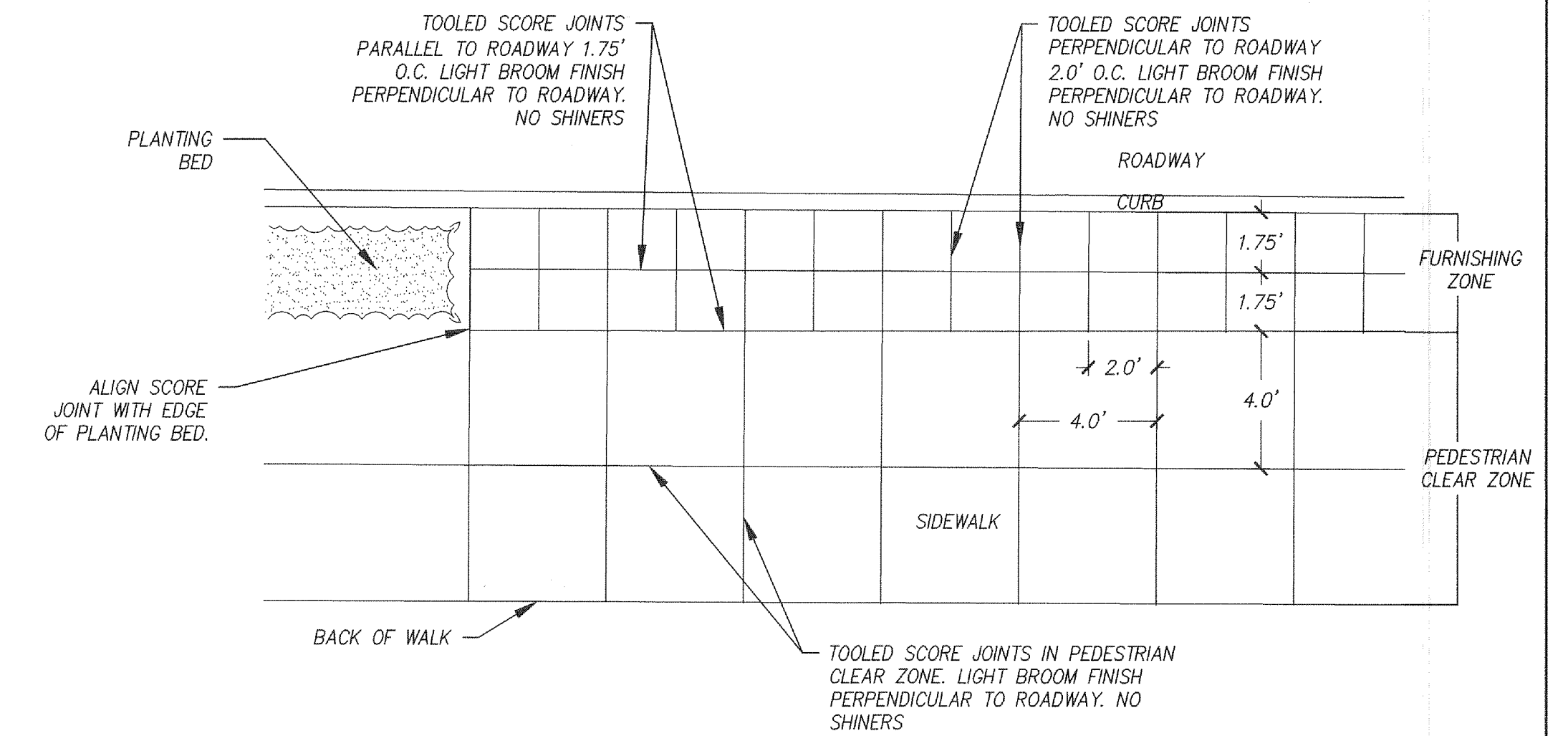
NOTE:
SEE PLANS FOR LOCATIONS



STAPLE STYLE BIKE RACK INSTALLATION

N.T.S.

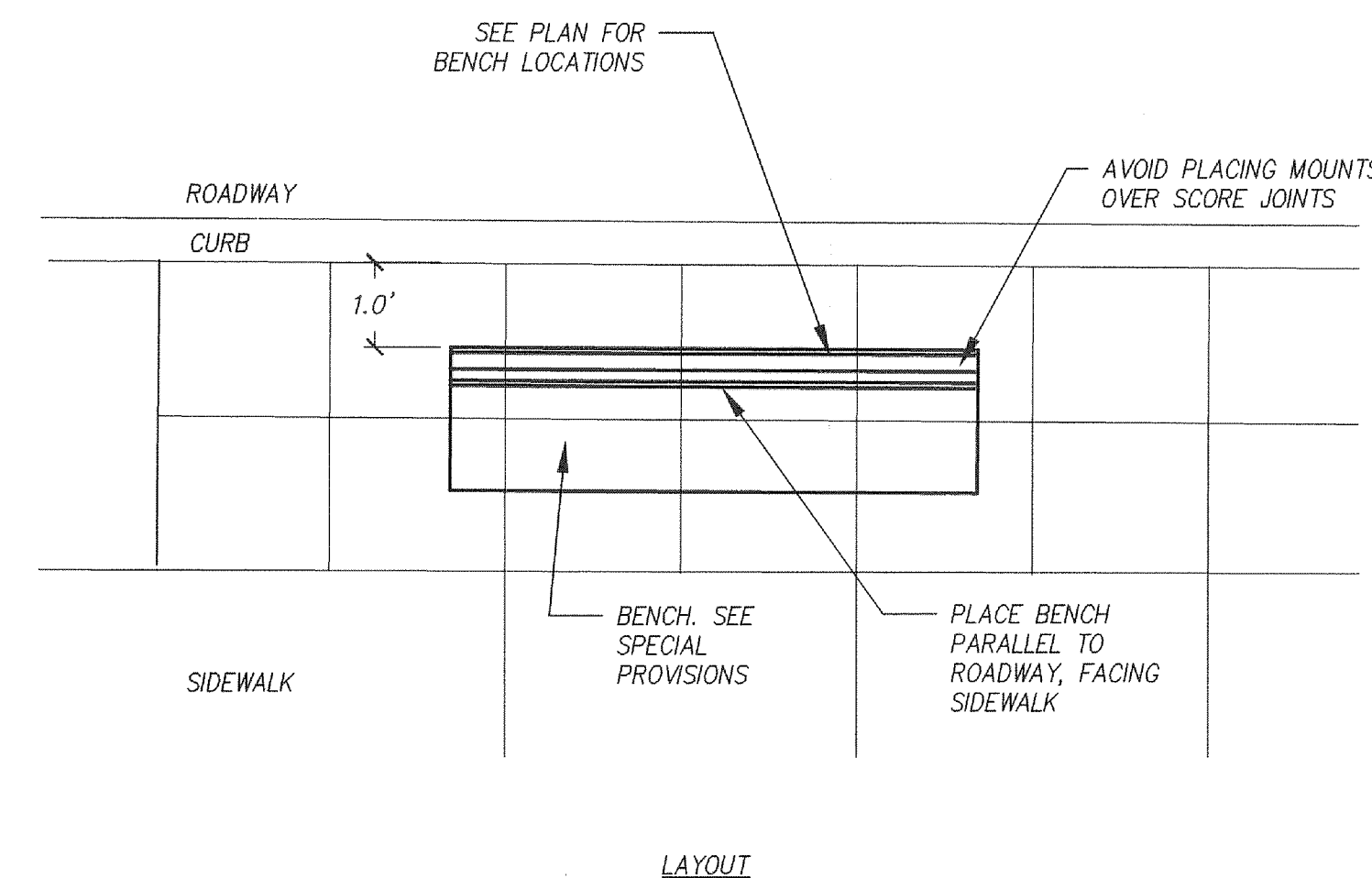
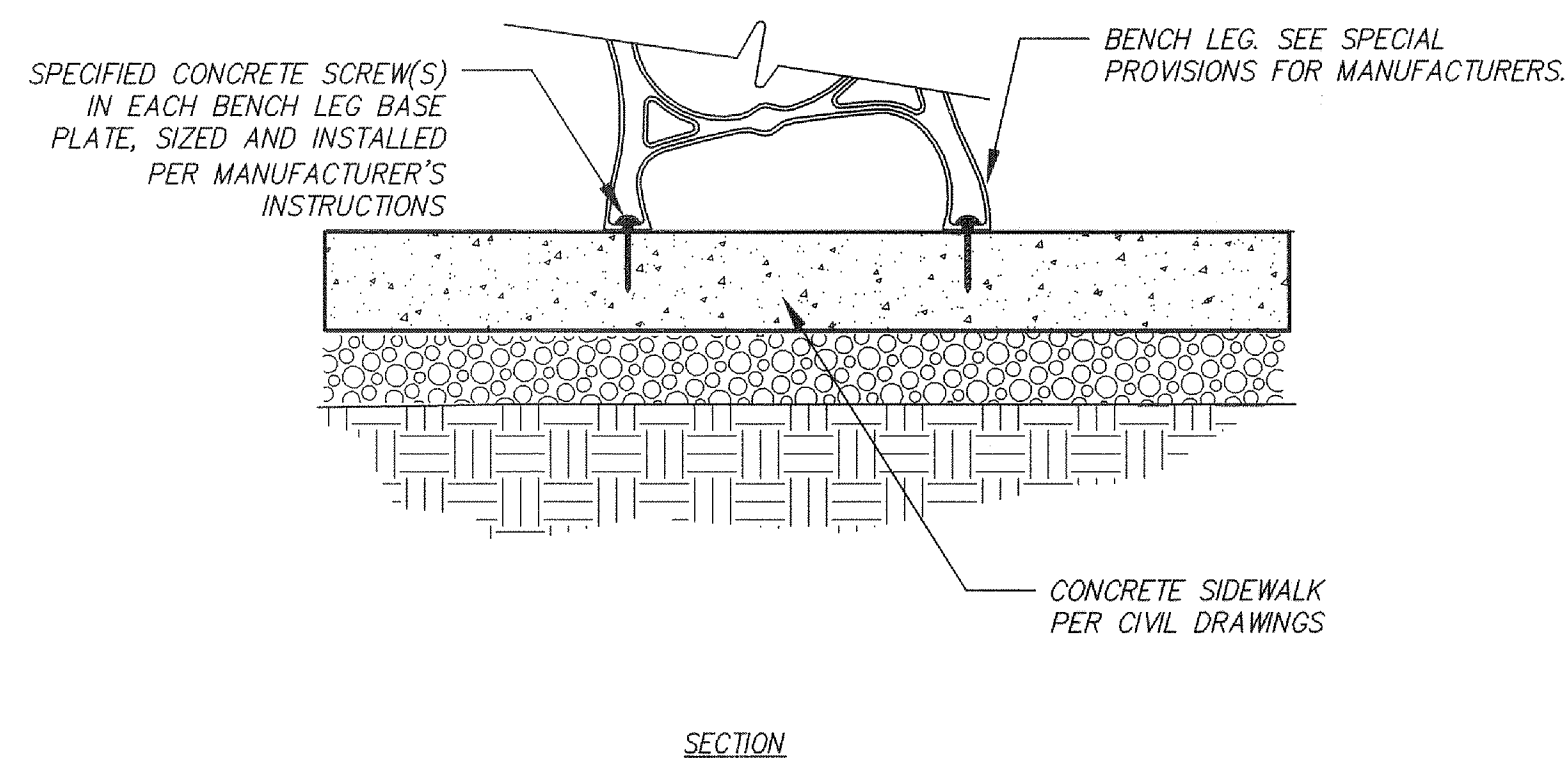
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LS4



SIDEWALK SCORE PATTERN

N.T.S.

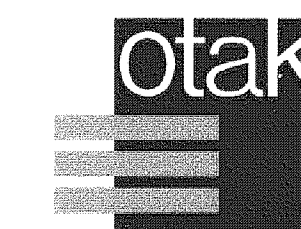
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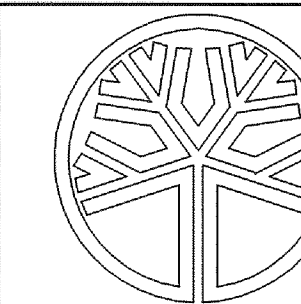
BENCH LOCATION AND INSTALLATION

N.T.S.

3
LS4



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 LANDSCAPE ARCHITECT
 DAVID D. HAYNES
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REVISION	DATE	DESCRIPTION	BY
JOB No.	13564E	WEST MAIN STREET REVITALIZATION PROJECT SITE DETAILS	
Designed By:			
Drawn By:			
Checked By:	KMA		
DATE:	10/30/2015	CITY OF KELSO PUBLIC WORKS DEPARTMENT 203 S. PACIFIC AVE. SUITE 205 KELSO, WA 98626	
SCALE:	AS SHOWN		
DWG NO.:	LS4	SHEET NUMBER	57 of 57