



Company	Schedule A	Schedule B	Total
Dirtworks Inc.	\$89,351.00	\$55,051.00	\$144,402.00
Prosser Dagg Const	\$118,250.00	\$74,110.00	\$192,360.00
Engineer Estimate	\$75,245.00	\$48,150.00	\$123,395.00

Project Description: This Project consists of the following:

**Schedule A** consists of removing and replacing 17 curb ramps one catch basin and associated pavement and other work on South Cobb Street from West Evergreen Avenue to West Dogwood Area.

**Schedule B** consists of removing and replacing additional curb ramps and sidewalks on South Bailey Street from West Evergreen Avenue to West Dogwood Area.

Hattenburg, Dilley and Linnell, LLC (HDL) has performed a professional services agreement for the bid process for the 2012 ADA Sidewalk Improvements project. HDL has recommended that the City only award the base bid for Schedule A at this time.

**Obligation:**

The City of Palmer has an obligation to construct and maintain ADA sidewalks throughout the town. This is an ongoing project based upon the availability of funding.

**Funding:**

This project is entirely funded by Department of Commerce, Community and Economic Development Grants. The City has approximately \$100,000 in remaining grant funds from the 2012 ADA sidewalk grant. Additionally, on August 14, 2012, the council adopted Resolution no. 12-029 accepting and appropriating \$100,000 in ADA sidewalk funding for 2013.

**Administration recommendation:** Approve action memorandum 12-067.

August 29, 2012

File No. 12-016

Tom Cohenour  
Director of Public Works  
City of Palmer, Alaska  
1316A S. Bonanza Street  
Palmer, Alaska 99645

RE: Recommendation of Award  
2012 ADA Sidewalk Improvements

Dear Mr. Cohenour:

We have reviewed the bids submitted for the above-referenced project. All bids are responsive, numerically correct, and meet the requirements of the specifications. The bids are summarized below and a detailed analysis sheet of the bids is attached.

Contractor	Dirtworks, Inc.	Prosser-Dagg Const.	Engineer's Estimate
Rank	1	2	-
Base Bid	\$89,351.00	\$118,250.00	\$75,245.00
Add Alt #1	\$55,051.00	\$74,110.00	\$48,150.00
Total Bid	\$144,402.00	\$192,360.00	\$123,395.00

In the bid from Dirtworks, Inc. items A-3 and B-3 appear to have an unusually high unit price. This could significantly impact the overall project cost if the estimated quantity is exceeded.

Based on the above summary, we recommend award of the base bid only to Dirtworks, Inc. of Palmer, Alaska. The additive alternate may be awarded if sufficient funding is available.

Please call if you need anything further.

Sincerely,

HATTENBURG DILLEY & LINNELL



Steven Reed, E.I.T.  
Project Engineer

Attach: Bid Analysis (1 ea 8½"x11" sheet)

cc: David Lundin, HDL

CIVIL  
ENGINEERING

GEOTECHNICAL  
ENGINEERING

TRANSPORTATION  
ENGINEERING

ENVIRONMENTAL  
SERVICES

PLANNING

SURVEYING

CONSTRUCTION  
ADMINISTRATION

MATERIAL  
TESTING

2012 ADA SIDEWALK IMPROVEMENTS  
BID TABULATION

**Schedule A - BASE BID - Sidewalk Improvements**

Item No.	Spec. No.	Work Description	Est. Qty	Unit	Engineer's Estimate		PROSSER-DAGG		DIRTWORKS, INC.	
					Unit Price	Total Bid Price	Unit Price	Calculated Total Bid Price	Unit Price	Calculated Total Bid Price
A-1	20.05	Type II - A Classified Fill & Backfill (Addl. As directed)	68	Ton	\$ 45.00	\$ 3,060.00	\$ 100.00	\$ 6,800.00	\$ 24.00	\$ 1,632.00
A-2	30.02	PCC Curb & Gutter, Type 1,3,4	305	LF	\$ 60.00	\$ 18,300.00	\$ 80.00	\$ 24,400.00	\$ 91.00	\$ 27,755.00
A-3	30.03	PCC Sidewalk 4" thick	15	Square Yard	\$ 125.00	\$ 1,875.00	\$ 300.00	\$ 4,500.00	\$ 518.00	\$ 7,770.00
A-4	30.03	PCC Sidewalk 6" thick	66	Square Yard	\$ 160.00	\$ 10,560.00	\$ 325.00	\$ 21,450.00	\$ 174.00	\$ 11,484.00
A-5	30.07	PCC Curb Ramp (W/detectable warning tile)	7	Each	\$ 3,000.00	\$ 21,000.00	\$ 3,000.00	\$ 21,000.00	\$ 2,500.00	\$ 17,500.00
A-6	40.02	AC Pavement (Class E, 3" Thickness) (Additional as Directed)	120	Square Yard	\$ 65.00	\$ 7,800.00	\$ 140.00	\$ 16,800.00	\$ 70.00	\$ 8,400.00
A-7	55.06	Construct Catch Basin	1	Each	\$ 6,500.00	\$ 6,500.00	\$ 15,000.00	\$ 15,000.00	\$ 11,710.00	\$ 11,710.00
A-8	70.19	Painted Traffic Markings, 4", White	200	LF	\$ 4.00	\$ 800.00	\$ 5.00	\$ 1,000.00	\$ 1.50	\$ 300.00
A-9	70.19	Painted Traffic Markings, 4", Yellow	50	LF	\$ 2.00	\$ 100.00	\$ 5.00	\$ 250.00	\$ 2.00	\$ 100.00
A-10	70.19	Painted Traffic Markings, 24", White	50	LF	\$ 5.00	\$ 250.00	\$ 11.00	\$ 550.00	\$ 4.00	\$ 200.00
A-11	70.21	Traffic Maintenance	1	Lump Sum	\$ 5,000.00	\$ 5,000.00	\$ 6,500.00	\$ 6,500.00	\$ 2,500.00	\$ 2,500.00
A-12	70.21	Traffic Price Adjustment	1	Contingent Sum	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Schedule A</b>					<b>\$ 75,245.00</b>		<b>\$ 118,250.00</b>		<b>\$ 89,351.00</b>	

**Schedule B - ADDITIVE ALTERNATE - Sidewalk Improvements**

B-1	20.05	Type II-A Classified Fill & Backfill (Additional as Directed)	47	Ton	\$ 45.00	\$ 2,115.00	\$ 100.00	\$ 4,700.00	\$ 24.00	\$ 1,128.00
B-2	30.02	PCC Curb & Gutter, Type 1,3,4	212	LF	\$ 60.00	\$ 12,720.00	\$ 80.00	\$ 16,960.00	\$ 87.00	\$ 18,444.00
B-3	30.03	PCC Sidewalk 4" thick	8	Square Yard	\$ 125.00	\$ 1,000.00	\$ 300.00	\$ 2,400.00	\$ 700.00	\$ 5,600.00
B-4	30.03	PCC Sidewalk 6" thick	64	Square Yard	\$ 160.00	\$ 10,240.00	\$ 325.00	\$ 20,800.00	\$ 172.00	\$ 11,008.00
B-5	30.07	PCC Curb Ramp (with Detectable Warning Tile)	3	Each	\$ 3,000.00	\$ 9,000.00	\$ 3,000.00	\$ 9,000.00	\$ 3,250.00	\$ 9,750.00
B-6	40.02	AC Pavement (Class E, 3" Thickness) (Additional as Directed)	95	Square Yard	\$ 65.00	\$ 6,175.00	\$ 140.00	\$ 13,300.00	\$ 56.80	\$ 5,396.00
B-7	70.19	Painted Traffic Markings, 4", White	200	LF	\$ 4.00	\$ 800.00	\$ 5.00	\$ 1,000.00	\$ 1.50	\$ 300.00
B-8	70.19	Painted Traffic Markings, 4", Yellow	50	LF	\$ 2.00	\$ 100.00	\$ 5.00	\$ 250.00	\$ 2.50	\$ 125.00
B-9	70.19	Painted Traffic Markings, 24", White	200	LF	\$ 5.00	\$ 1,000.00	\$ 11.00	\$ 2,200.00	\$ 4.00	\$ 800.00
B-10	70.21	Traffic Maintenance	1	LS	\$ 5,000.00	\$ 5,000.00	\$ 3,500.00	\$ 3,500.00	\$ 2,500.00	\$ 2,500.00
B-11	70.21	Traffic Price Adjustment	1	Contingent Sum	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Schedule B</b>					<b>\$ 48,150.00</b>		<b>\$ 74,110.00</b>		<b>\$ 55,051.00</b>	

Written Total Schedule A					\$ 75,245.00	\$ 118,250.00	\$ 89,351.00
Written Total Schedule B					\$ 48,150.00	\$ 74,110.00	\$ 55,051.00
Submitted Total Bid					\$ 123,395.00	\$ 192,360.00	\$ 144,402.00
Calculated Total Bid					\$ 123,395.00	\$ 192,360.00	\$ 144,402.00
Difference					\$ -	\$ -	\$ -
Signed Proposal						Yes	Yes
Bid Guaranty						Yes	Yes
Bidder Qualification Form						Yes	Yes



**PROJECT NOTES**

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CITY OF PALMER STANDARD SPECIFICATIONS (CPSS) FOR STREET- DRAINAGE- UTILITIES- PARKS, DATED 1998, AND THE AMERICANS WITH DISABILITIES ACT.
- THE LOCATION OF EXISTING FEATURES, SERVICE LINES, UTILITIES, ETC. ARE NOT SHOWN IN THE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING FIELD VERIFICATION OF ALL BURIED AND OVERHEAD UTILITIES FROM THE APPROPRIATE UTILITY COMPANIES OR AUTHORITIES. THE CONTRACTOR SHALL CONTACT THE LOCATE CALL CENTER OF ALASKA, AS WELL AS ANY NON-PARTICIPATING UTILITIES, TO FIELD LOCATE ALL UTILITIES PRIOR TO DIGGING. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO DIGGING, OTHERWISE CONTRACTOR IS RESPONSIBLE FOR ALL ADDITIONAL COSTS ASSOCIATED WITH WORKING AROUND UTILITIES DIFFERENT THAN WHAT IS SHOWN ON THESE PLANS.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS, AND LAYOUT PRIOR TO PROCEEDING WITH THE WORK. ANY DISCREPANCY IN THE PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO PROCEEDING WITH THE WORK.
- CONTRACTOR SHALL PROVIDE ALL PERMITS WHICH ARE NOT SPECIFICALLY INDICATED AS PROVIDED BY THE OWNER IN THE SPECIAL PROVISIONS.
- CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE IBC, OSHA AND ALL OTHER FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS PERTAINING TO THIS PROJECT. ANY WORK PERFORMED BY THE CONTRACTOR CONTRARY TO SUCH LAWS OR REGULATIONS SHALL BE AT THE CONTRACTOR'S SOLE RISK AND EXPENSE.
- UNLESS NOTED OTHERWISE ALL VALVE BOXES, CATCH BASINS AND MANHOLES WITHIN THE CONSTRUCTION AREA SHALL BE ADJUSTED TO FINISHED GRADE.
- THE CONTRACTOR SHALL ESTABLISH, PROVIDE AND MAINTAIN AN EFFECTIVE QUALITY CONTROL PROGRAM IN ACCORDANCE WITH CPSS SECTION 10.05, ARTICLE 5.8 TESTING OF MATERIALS AS MODIFIED BY THE SPECIAL PROVISIONS. QUALITY CONTROL SHALL BE INCIDENTAL. THE OWNER MAY AT ITS OPTION, PROVIDE ADDITIONAL TESTING FOR QUALITY ASSURANCE. HOWEVER, SUCH TESTING SHALL NOT REDUCE THE CONTRACTOR'S QUALITY CONTROL REQUIREMENT. (SEE SPECIAL PROVISIONS FOR MINIMUM FIELD AND LABORATORY TESTING REQUIREMENTS)
- REPAIR OF DAMAGE TO EXISTING PAVEMENT, SIDEWALKS, CURB & GUTTER, LANDSCAPING, FENCES, PARKING LOTS, AND OTHER IMPROVEMENTS CAUSED BY CONTRACTOR'S ACTIVITIES BEYOND THE AREAS SHOWN ON DRAWINGS SHALL BE AT NO COST TO OWNER AND SHALL NOT BE MEASURED FOR PAYMENT.
- SEE SPECIAL PROVISION ARTICLE 70.22 FOR A LIST OF INCIDENTAL ITEMS FOR WHICH NO SEPARATE PAYMENT SHALL BE MADE.
- HAUL ROUTES FOR REMOVAL AND DELIVERY OF MATERIALS SHALL UTILIZE EXISTING ROADWAYS (NOT ALLEYS). MUD AND DEBRIS TRACKED ONTO ROADWAYS SHALL BE PROMPTLY REMOVED. TRAFFIC LAWS ARE TO BE OBEYED AT ALL TIMES.
- CONTRACTOR SHALL PROTECT ALL MONUMENTS AND PROPERTY CORNERS. DAMAGED/MOVED MONUMENTS AND CORNERS, WHETHER OR NOT THEY ARE SHOWN ON THE DRAWINGS, SHALL BE REPLACED AT NO ADDITIONAL COST TO THE OWNER IN ACCORDANCE WITH CPSS SECTION 65.02.
- CONTRACTOR SHALL ESTABLISH, PROVIDE AND MAINTAIN AN EFFECTIVE STORM WATER POLLUTION PREVENTION PROGRAM AND DUST CONTROL PROGRAM.

**SCHEDULES OF WORK**

SCHEDULE	DESCRIPTION
A	BASE BID - SIDEWALK IMPROVEMENTS
B	ADD. ALT. - ADDITIONAL SIDEWALK IMPROVEMENTS

**ABBREVIATIONS**

AC	ASPHALT CONCRETE
@ , CL	CENTERLINE
CG, C&G	CURB & GUTTER
CPSS	CITY OF PALMER STANDARD SPECIFICATIONS
CY	CUBIC YARDS
DEMO	DEMOLISH
E	EAST, EASTING
EA	EACH
EL, ELEV	ELEVATION
EOA	EDGE OF ASPHALT
EOP	EDGE OF PAVEMENT, END OF PROJECT
EXIST	EXISTING
FG	FINISH GRADE
FT	FEET
HORZ	HORIZONTAL
IN	INCH
LIP	LIP OF CURB
LT	LEFT
LF	LINEAR FEET
MAX	MAXIMUM
MIN	MINIMUM
MISC	MISCELLANEOUS
N	NORTH OR NORTHING
NE	NORTHEAST
NFS	NON FROST SUSCEPTIBLE
NO.	NUMBER
NTS	NOT TO SCALE
PI	POINT OF INTERSECTION
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVE OR PORTLAND CEMENT CONCRETE
PT	POINT OF TANGENT
PVMT	PAVEMENT
R, RAD	RADIUS
REQ'D	REQUIRED
ROW	RIGHT-OF-WAY
RP	RADIUS POINT
R&R	REMOVE AND REPLACE
RT	RIGHT
S	SOUTH
SF	SQUARE FOOT
SPEC	CPSS SECTION
SW	SOUTHWEST
SY	SQUARE YARDS
TBC	TOP BACK OF CURB
TCP	TRAFFIC CONTROL PLAN
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
W	WEST
W/	WITH

**LEGEND (UNLESS NOTED OTHERWISE)**

 ITEM REFERENCE NUMBER

**CONSTRUCTION SEQUENCING NOTES**

- SEQUENCE CONSTRUCTION TO MINIMIZE INCONVENIENCE TO ADJACENT PROPERTIES, BUSINESSES, PEDESTRIANS, AND VEHICLE TRAFFIC.
- SUBMIT CONSTRUCTION PROGRESS SCHEDULE IN ACCORDANCE WITH SECTION 10.05.
- SEE SECTION 10.05, ARTICLE 5.24 REGARDING SUSPENSION OF WORK REQUIREMENTS, INCLUDING WINTER SHUTDOWN.

**TRAFFIC CONTROL RESTRICTIONS**

- SUBMIT TRAFFIC CONTROL PLAN (TCP) IN ACCORDANCE WITH SECTION 70.21 AND THE REQUIREMENTS HERE. OBTAIN A CITY OF PALMER ROAD CLOSURE PERMIT PRIOR TO ANY WORK IN THE RIGHT OF WAY.
- MAINTAIN VEHICULAR AND PEDESTRIAN ACCESS TO EACH ADJACENT RESIDENCE OR BUSINESS AT ALL TIMES. IN NO CASE MAY ALL ENTRANCES OR DRIVEWAYS BE BLOCKED, CLOSED, OR OTHERWISE MADE UNUSABLE BY VEHICLE AND PEDESTRIAN TRAFFIC WITHOUT PROVIDING APPROVED ALTERNATE ACCESS. ALL COSTS TO PROVIDE TEMPORARY ACCESS SHALL BE INCIDENTAL TO TRAFFIC MAINTENANCE.
- ACCESS FOR EMERGENCY VEHICLES AND PERSONS WITH SPECIAL NEEDS SHALL BE PROVIDED AT ALL TIMES.
- ALLEYS SHALL NOT BE USED FOR THROUGH TRAFFIC DETOUR ROUTES, BUT MAY BE USED FOR ALTERNATE DRIVEWAY ACCESS.
- NO SINGLE SECTION OF SIDEWALK MAY BE UNUSABLE FOR MORE THAN SEVEN (7) CONTINUOUS DAYS.
- AT LEAST ONE DRIVEWAY ACCESS SHALL BE AVAILABLE TO EACH ADJACENT PROPERTY AT ALL TIMES. PROVIDE SIGNAGE TO REDIRECT TRAFFIC TO ALTERNATE ACCESS POINTS.
- FAILURE TO COMPLY WITH TRAFFIC CONTROL RESTRICTIONS WILL RESULT IN \$500 PER DAY LIQUIDATED DAMAGES. SEE SECTION 70.21.

REVISIONS	DATE	DESCRIPTION
1		
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5		

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2012 ADA SIDEWALK IMPROVEMENTS

**CITY OF PALMER**

PALMER, ALASKA

**CALL BEFORE YOU DIG!**

THE CONTRACTOR SHALL NOTIFY ALL AREA UTILITY COMPANIES PRIOR TO COMMENCEMENT OF EXCAVATION

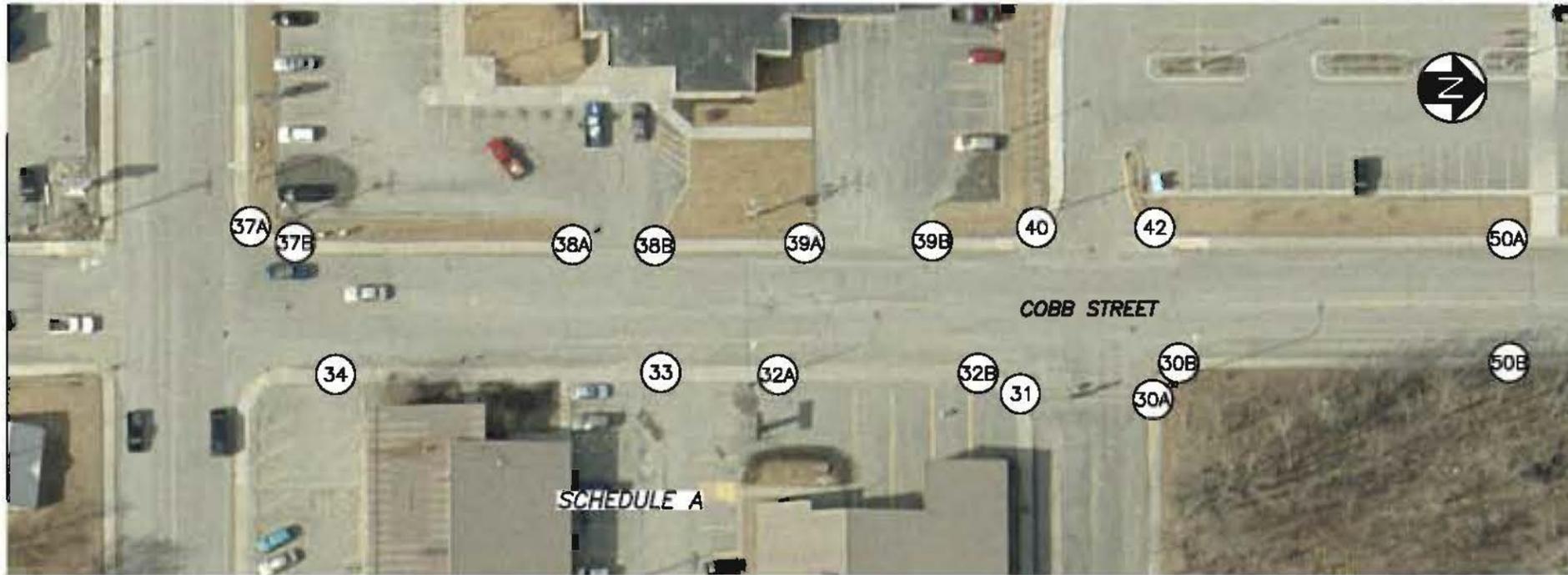
LOCATE CALL CENTER OF ALASKA	1-800-478-3121
CITY OF PALMER PUBLIC WORKS	745-3709
ADOT&PF - PALMER	745-2159

SHEET TITLE  
**PROJECT NOTES, ABBREVIATIONS LEGEND.**

SHEET  
**G1.02**

DRAWN BY TLC	CHECKED BY DWL
DATE 2012	SCALE NONE
JOB NUMBER 12-016	

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VIEW: G102\_H\_X7700  
XREF: 09015\_04\_BDD1



SCHEDULE A WORK ITEM TABLE		
REF. NUMBER	QTY	DESCRIPTION
30A	1 EA	PARALLEL CURB RAMP
30B	7.5 SY	SIDEWALK
31	1 EA	PARALLEL CURB RAMP
	1 EA	R&R CATCH BASIN
32A, B	11 SY	DRIVEWAY, RAMPS ONLY
33	20 SY	DRIVEWAY
34	20 SY	DRIVEWAY
37A	1 EA	PARALLEL CURB RAMP
37B	7.5 SY	SIDEWALK
38A, B	7.5 SY	DRIVEWAY, RAMPS ONLY
39A, B	7.5 SY	DRIVEWAY, RAMPS ONLY
40	1 EA	PARALLEL CURB RAMP
42	1 EA	PARALLEL CURB RAMP
50A	1 EA	MID-BLOCK CURB RAMP
50B	1 EA	MID-BLOCK CURB RAMP



SCHEDULE B WORK ITEM TABLE		
REF. NUMBER	QTY	DESCRIPTION
18	1 EA	PARALLEL CURB RAMP
19	7.5 SY	SIDEWALK
20	16 SY	DRIVEWAY
21	16 SY	DRIVEWAY
22	2 EA	PARALLEL CURB RAMP
49A	16 SY	DRIVEWAY
49B	2 SY	SIDEWALK
51	16 SY	DRIVEWAY

**NOTES**

1. WORK ITEM LOCATIONS ARE APPROXIMATE. COORDINATE FINAL LOCATIONS, DIMENSIONS, AND LAYOUT WITH OWNER AND ENGINEER IN THE FIELD.
2. SEE SHEET C2.01 FOR WORK ITEM LIMITS AND DESCRIPTIONS.

REVISIONS	DATE	DESCRIPTION
1		
2		
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5		

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2012 ADA SIDEWALK IMPROVEMENTS  
**CITY OF PALMER**  
PALMER, ALASKA

PROJECT TITLE  
**PROJECT LAYOUT  
EVERGREEN TO  
CEDAR**

DATE  
2012

SCALE  
1" = 50'

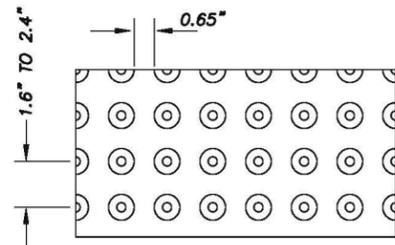
12-016

**WORK ITEM NOTES**

- A. SEE DETAIL 2/C2.01 FOR DEPICTION OF WORK ITEMS.
- B. WORK ITEM LOCATIONS, LIMITS, AND LAYOUT SHALL BE COORDINATED IN THE FIELD WITH OWNER AND ENGINEER. PROVIDE KNOWLEDGABLE AND SKILLED PERSONEL AND COOPERATE TO DETERMINE AND MARK FINAL DIMENSIONS AND ELEVATIONS.
- C. DEMOLITION, SAW CUTTING, AND DISPOSAL ARE INCIDENTAL TO THE PAY ITEMS.
- D. EXCAVATION AND GRADING TO SHAPE AND PREPARE THE GRADE FOR NEW CONCRETE, PAVEMENT, OR TOPSOIL INCLUDING HAULING, DISPOSAL, AND IMPORTED MATERIALS IS INCIDENTAL TO THE PAY ITEMS.
- E. TOPSOIL AND SEEDING OF DISTURBED AREAS THAT DO NOT RECEIVE CONCRETE OR PAVEMENT IS INCIDENTAL TO THE PAY ITEMS.
- F. OWNER/ENGINEER MAY DIRECT CONTRACTOR TO EXCAVATE CONCRETE OR PAVEMENT SUBGRADE AND BACKFILL WITH CLASSIFIED MATERIAL. PAYMENT SHALL BE PER TON OF CLASSIFIED BACKFILL INSTALLED AS DIRECTED.
- G. OWNER/ENGINEER MAY DIRECT CONTRACTOR TO REMOVE AND REPLACE PAVEMENT BEYOND THE LIMITS INCLUDED IN THE CONCRETE PAY ITEMS. PAYMENT SHALL BE PER SQUARE YARD OF NEW PAVEMENT INSTALLED AS DIRECTED.
- H. AC PAVEMENT PAY ITEM INCLUDES SAWCUTTING, REMOVAL AND DISPOSAL OF EXISTING PAVEMENT, EXCAVATION AND GRADING, 4" LEVELING COURSE, COMPACTION, 3" A.C. PAVEMENT AND RELATED WORK PER THE SPECIFICATIONS.
- I. STRIPING SHALL BE PER SHEET C3.01. LAYOUT AND LOCATION OF STRIPING SHALL BE COORDINATED IN THE FIELD WITH OWNER AND ENGINEER.
- J. CONCRETE PAY ITEMS INCLUDE SAWCUTTING, REMOVAL AND DISPOSAL OF EXISTING CONCRETE, PREPARATION FOR NEW CONCRETE, LEVELING COURSE, NEW CONCRETE AND RELATED WORK PER THE SPECIFICATIONS.

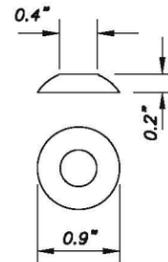
**CURB RAMP NOTES**

- 1. CONSTRUCT RAMP RUNS AND LANDINGS OF CONCRETE, REGARDLESS OF WHETHER THE SIDEWALK IS ASPHALT OR CONCRETE.
- 2. CONCRETE SHALL RECEIVE A COARSE BROOMED FINISH PERPENDICULAR TO THE DIRECTION OF TRAVEL.
- 3. RAMP SLOPE IN THE DIRECTION OF TRAVEL SHALL HAVE A MINIMUM SLOPE OF 2.0% (50:1), AND SHALL HAVE A MAXIMUM SLOPE OF 8.33% (12:1), OR A MAXIMUM LENGTH OF 8'.
- 4. CONSTRUCT THE RAMP WITH NO MANHOLES, UTILITY JUNCTION BOXES OR OTHER OBSTRUCTIONS IN THE RAMP.
- 5. LANDINGS SHALL HAVE A MAXIMUM SLOPE OF 2% (50:1) IN ALL DIRECTIONS.
- 6. THE 12:1 AND 50:1 SLOPES SHOWN ARE THE STEEPEST SLOPES ALLOWED BY LAW (EXCEPT AS PROVIDED UNDER NOTE 3).
- 7. INSTALL 24" WIDE STRIPS OF SAFETY YELLOW CAST-IN-PLACE COMPOSITE DETECTABLE WARNING TILES WITH TRUNCATED DOME DETECTABLE WARNING TEXTURE ON THE STREET SIDE EDGE OF LOWER LANDINGS AS SHOWN. DOMES SHALL BE IN A SQUARE PATTERN. ALIGN TRUNCATED DOME PATTERN IN THE PREDOMINANT DIRECTION OF WHEELCHAIR TRAVEL TO PERMIT WHEELS TO ROLL BETWEEN THE DOMES.
- 8. CONSTRUCT NEW SIDEWALK OR PATHWAY TO MATCH EXISTING WIDTH. MINIMUM WIDTH IS 3 FEET. TRANSITION TO AND MATCH CURB RAMP AS SHOWN ON PLANS AND THESE DETAILS.
- 9. ADJUST RAMP LOCATIONS TO ENSURE A MINIMUM 3-FOOT CLEARANCE AROUND OBSTRUCTIONS.
- 10. TRIM OUTSIDE EDGES AND JOINTS OF RAMPS AND FLARES WITH 1/4-INCH RADIUS EDGING TOOL.
- 11. GRADE ALL SURFACES TO PROVIDE POSITIVE DRAINAGE IN AND AROUND RAMPS.
- 12. MINIMUM FLOW LINE SLOPE IN CURB RETURN IS 0.5% OR EXISTING SLOPE, WHICHEVER IS LESS.
- 13. CONTRACTOR SHALL MAINTAIN, ON SITE, AN ELECTRONIC LEVEL AND RULER. CONTRACTOR SHALL, WHEN REQUESTED, DEMONSTRATE TO THE ENGINEER THAT APPLICABLE SLOPES AND CLEARANCES ARE MAINTAINED.
- 14. CONTRACTOR SHALL NOT ORDER CONCRETE TRUCKS BEFORE OBTAINING VERIFICATION OF CURB RAMP LAYOUT FROM ENGINEER.
- 15. P.C.C. CURB RAMPS WHICH JOIN EXISTING P.C.C. SIDEWALKS SHALL HAVE TWO (2) #5x1' REBAR KEYED 6" INTO THE EXISTING P.C.C. SIDEWALK FOR EACH SIDE OF THE CURB RAMP 2-3 INCHES FROM THE MATCHING CORNER POINTS/COLD JOINTS.



**TEXTURE PATTERN DETAIL**

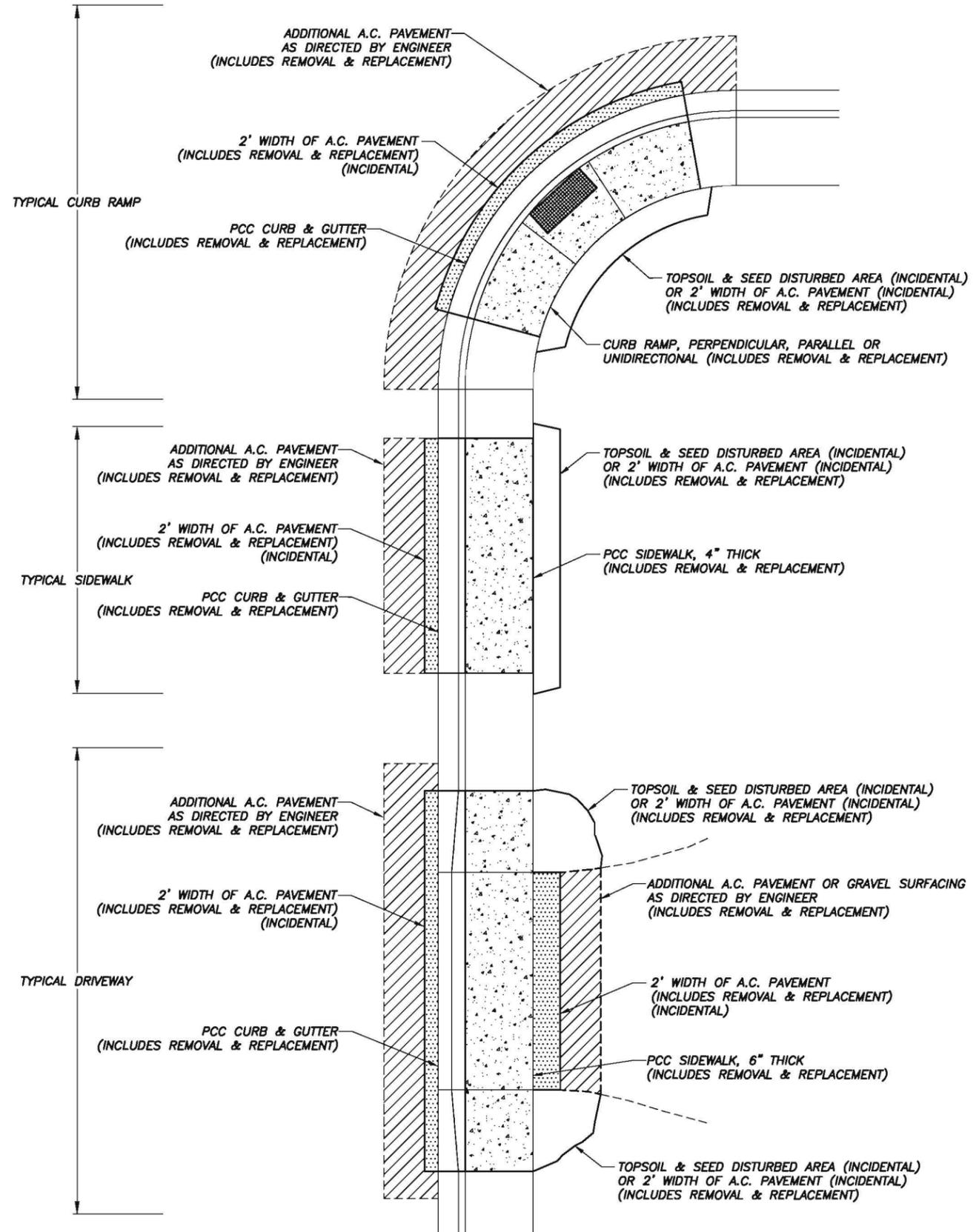
N.T.S.



**TRUNCATED DOME DETAIL**

N.T.S.

**1 DETECTABLE WARNING DETAIL**  
SCALE: NONE



**2 TYPICAL WORK ITEMS**  
SCALE: NONE

REVISIONS	MARK	DATE	DESCRIPTION
1			
2			
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2012 ADA SIDEWALK IMPROVEMENTS

**CITY OF PALMER**  
PALMER, ALASKA

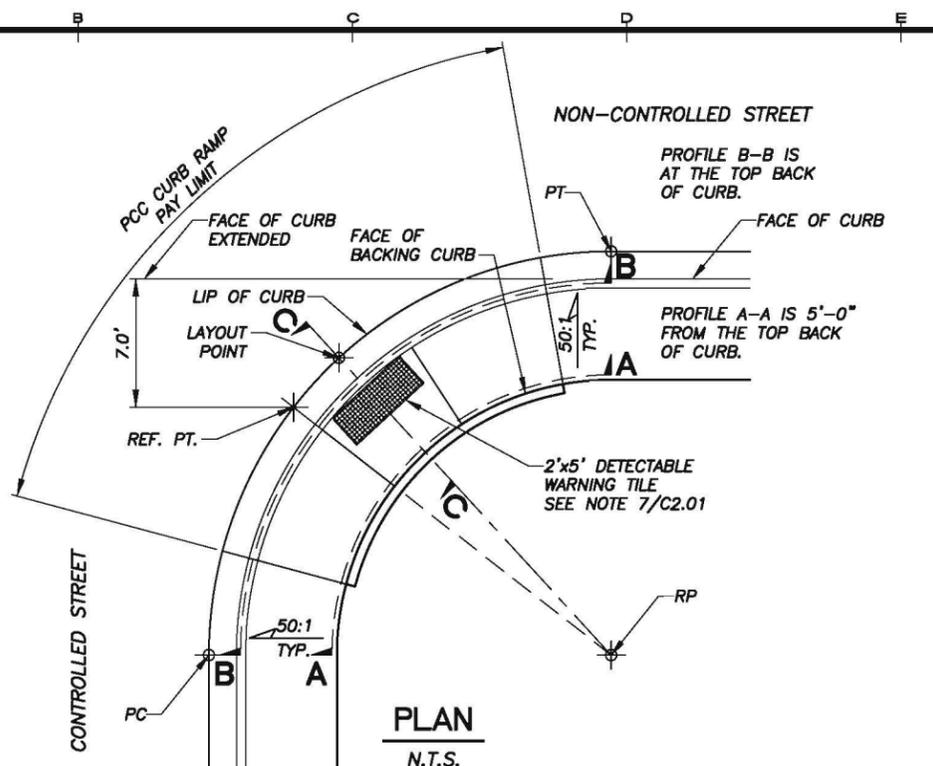
SHEET TITLE: TYPICAL WORK ITEMS

SHEET: C2.01

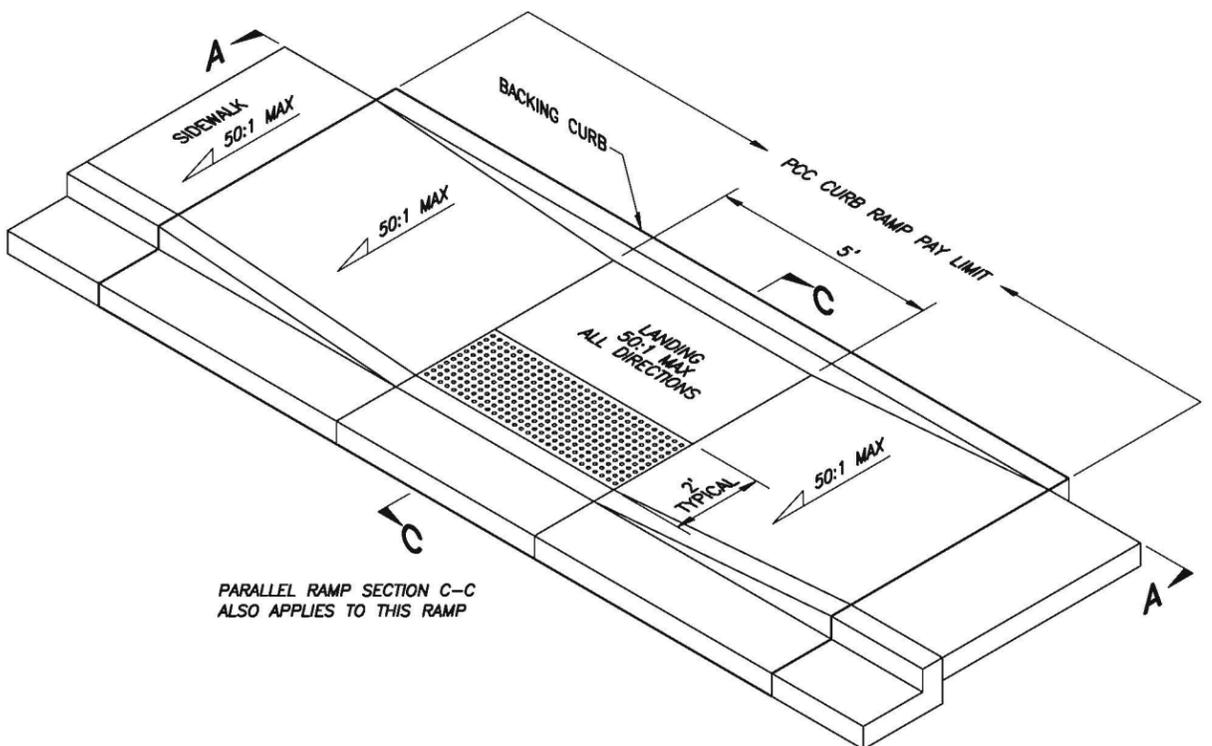
DATE: 2012 SCALE: NTS

JOB NUMBER: 12-016

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 VIEW: CS02\_H\_L5000\_CS02\_H\_X7700  
 XREF: 06030\_04\_B001

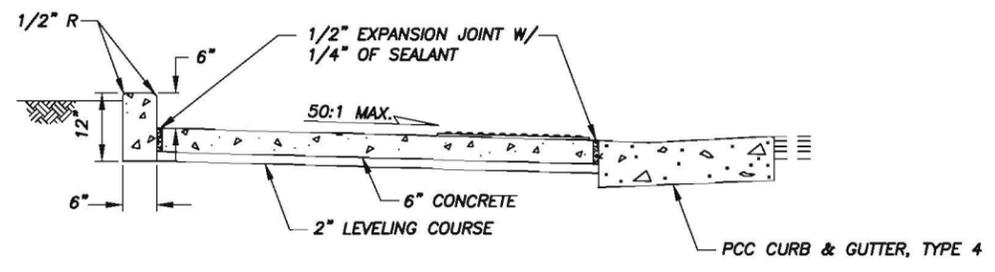


**PLAN**  
N.T.S.

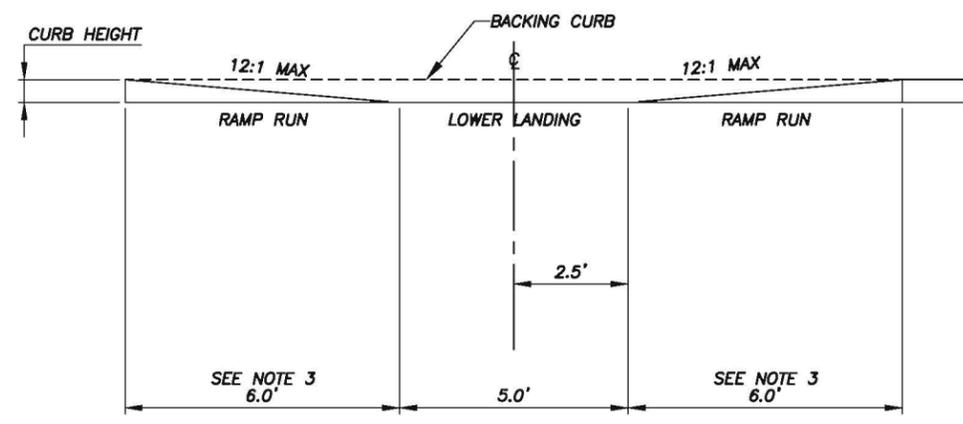


PARALLEL RAMP SECTION C-C  
ALSO APPLIES TO THIS RAMP

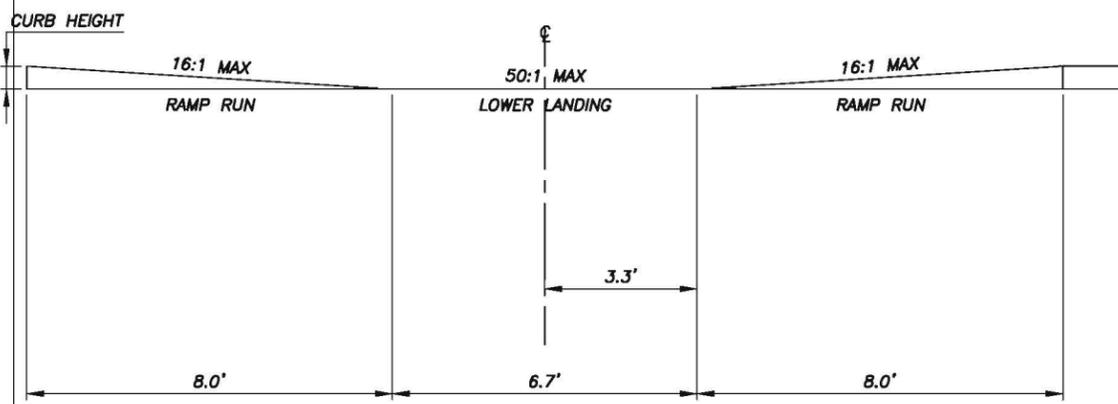
**1 TYPICAL MID-BLOCK CURB RAMP**  
C2.02 SCALE: NONE



**SECTION C-C**  
N.T.S.



**PROFILE A-A**  
N.T.S.



**PROFILE B-B**  
N.T.S.

**1 TYPICAL PARALLEL CURB RAMP**  
C2.02 SCALE: NONE

**PARALLEL AND MID-BLOCK CURB RAMP NOTES**

1. RAMP LENGTH AT BACK OF WALK IS 6' UNLESS SLOPE EXCEEDS 12:1 DUE TO LONGITUDINAL STREET SLOPE, THEN 8' MAX.
2. WHERE SIDEWALK DOES NOT CONTINUE ON SIDE STREET, TRUNCATE SIDEWALK AND BACKING CURB AT LANDING.
3. DIMENSIONS MAY VARY DEPENDING ON CORNER RADIUS.
4. FOR OFFSET SIDEWALK, ADJUST LANDING WIDTH AS NECESSARY.

REVISIONS	DATE	DESCRIPTION
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**CITY OF PALMER**  
PALMER, ALASKA

SHEET TITLE  
**CURB RAMP DETAILS  
PARALLEL &  
MID-BLOCK**

SHEET  
**C2.02**

DRAWN BY  
TLC

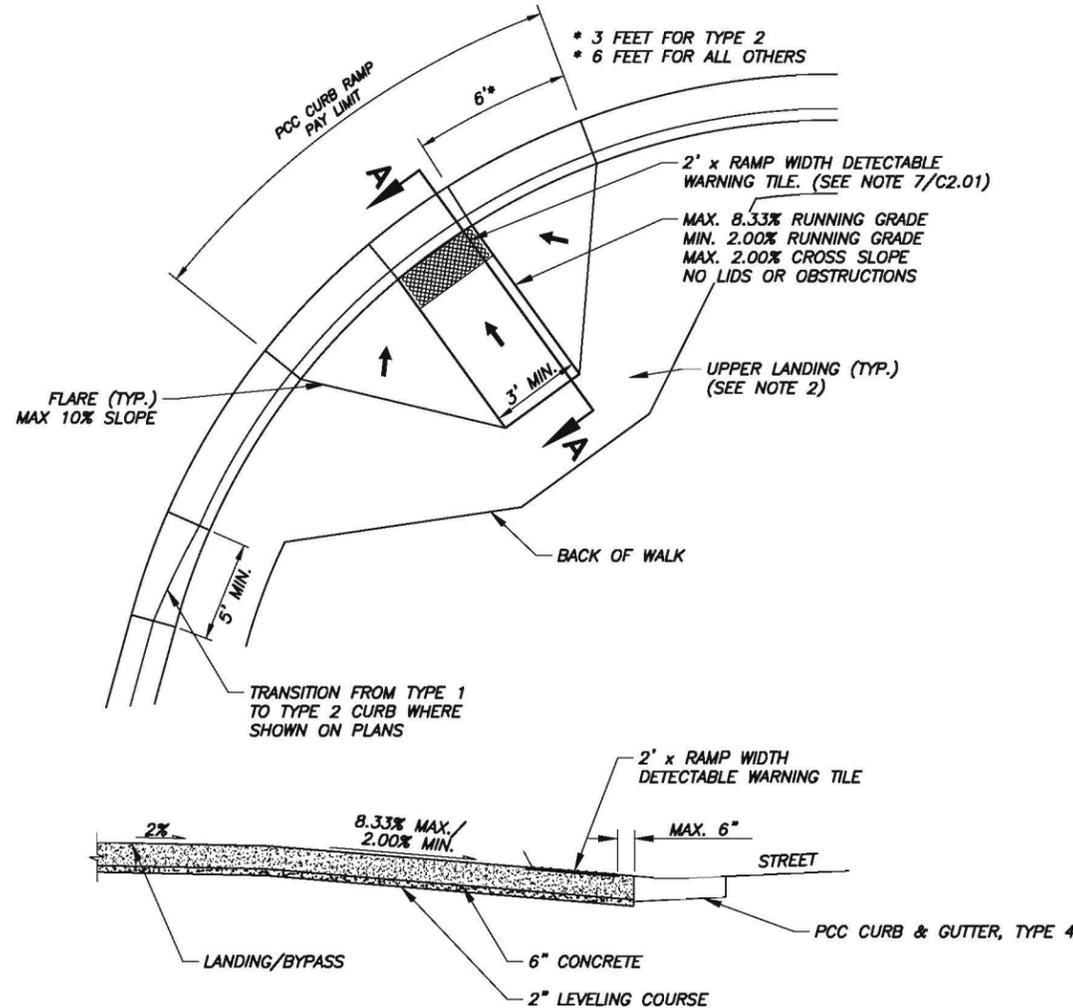
CHECKED BY  
DWL

DATE  
2012

SCALE  
NTS

JOB NUMBER  
12-016

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LAYOUT: C2.02  
VIEW: C502\_H\_L5000\_C502\_H\_X7700  
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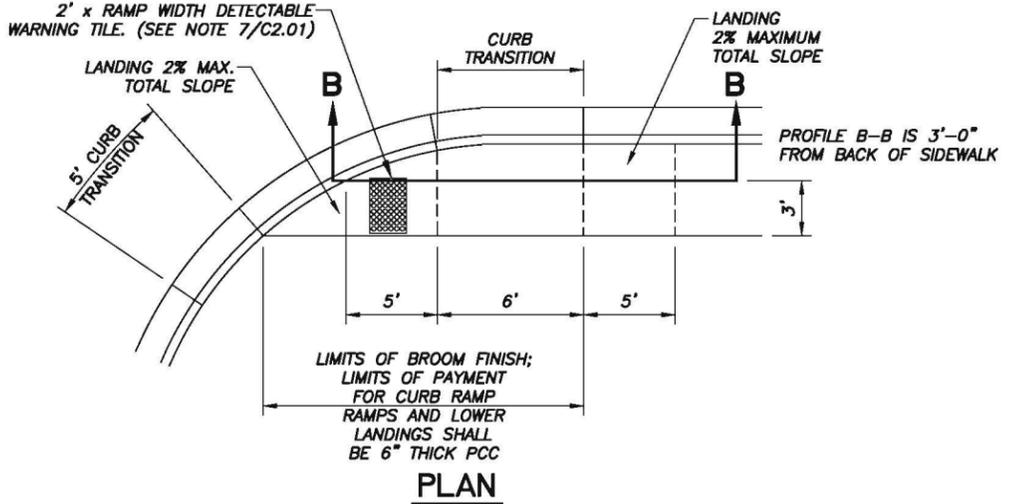


**SECTION A-A**  
N.T.S.

**1 PERPENDICULAR CURB RAMP W/ FLARES**  
C2.03 SCALE: N.T.S.

**PERPENDICULAR CURB RAMP NOTES:**

1. FLARED SIDES WITH A SLOPE OF 10% MAXIMUM MEASURED PARALLEL TO THE CURB LINE, SHALL BE PROVIDED WHERE A PEDESTRIAN CIRCULATION PATH CROSSES THE CURB RAMP.
2. THE UPPER LANDING SHALL HAVE AT MAXIMUM 2% RUNNING SLOPE AND 2% CROSS SLOPE. CONSTRUCT ADDITIONAL SIDEWALK OR A.C. PAVEMENT PATHWAY (TO MATCH EXISTING) BEHIND CURB RAMP AS DIRECTED BY ENGINEER FOR 3 FEET OF UNOBSTRUCTED LANDING AREA. IF EXISTING SIDEWALK OR PATHWAY MATCHING THE CURB RAMP DOES NOT MEET SLOPE REQUIREMENTS FOR A LANDING, RECONSTRUCT SIDEWALK OR PATHWAY AS DIRECTED BY ENGINEER.



**SECTION B-B**  
N.T.S.

**2 UNIDIRECTIONAL CURB RAMP DETAIL**  
C2.03 SCALE: N.T.S.

**UNIDIRECTIONAL CURB RAMP NOTES**

1. RAMP WIDTH SHALL BE THE WIDTH OF THE SIDEWALK, OF WHICH AT LEAST 36" SHALL BE FREE OF OBSTRUCTIONS. LANDINGS AT TOPS AND BOTTOMS OF RAMPS SHALL BE 5' LONG AND HAVE A MAXIMUM 2% (50:1) SLOPE IN ALL DIRECTIONS.

REVISIONS	MARK	DATE	DESCRIPTION
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SHEET TITLE: CURB RAMP DETAILS PERPENDICULAR & UNIDIRECTIONAL

SHEET: C2.03

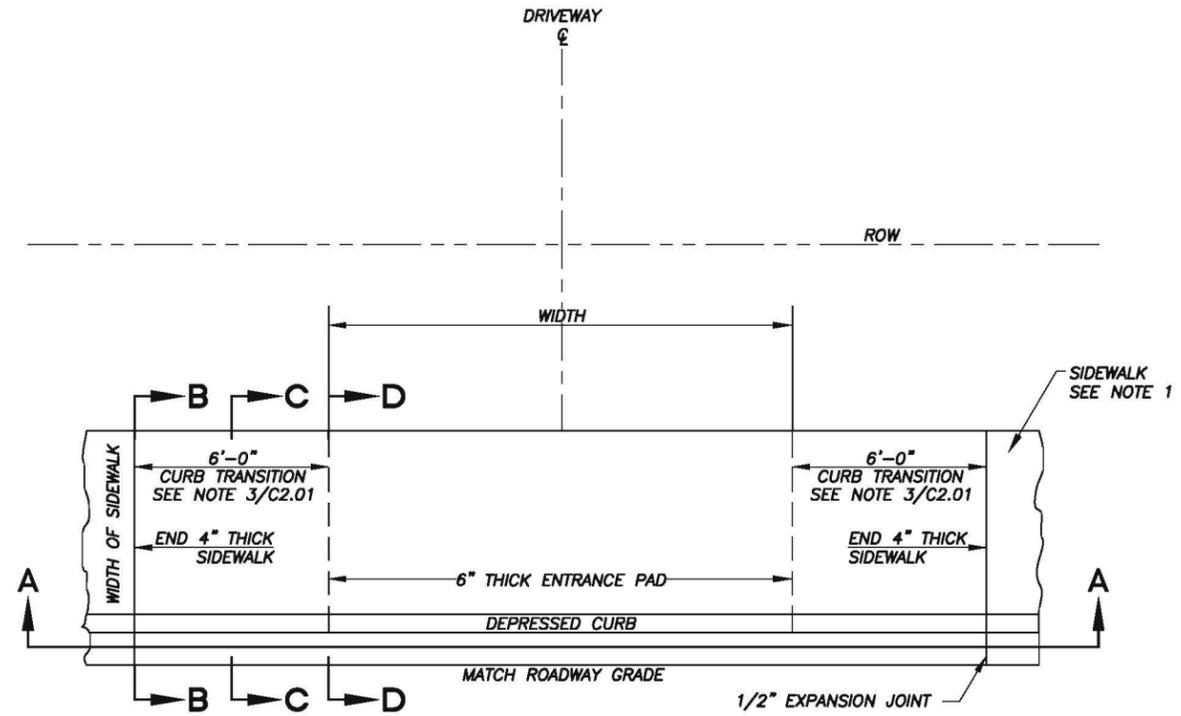
DRAWN BY: TLC CHECKED BY: DWL

DATE: 2012 SCALE: NONE

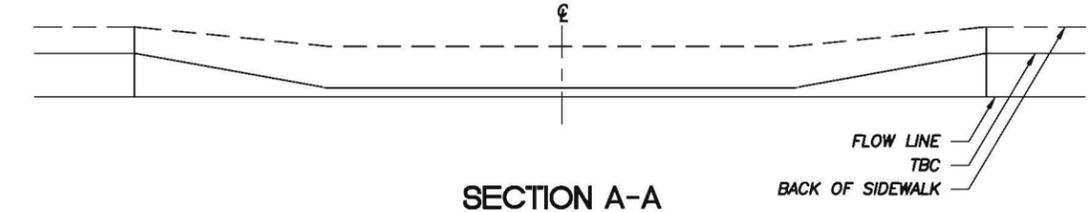
JOB NUMBER: 12-016

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VIEW: C503\_H\_X7700  
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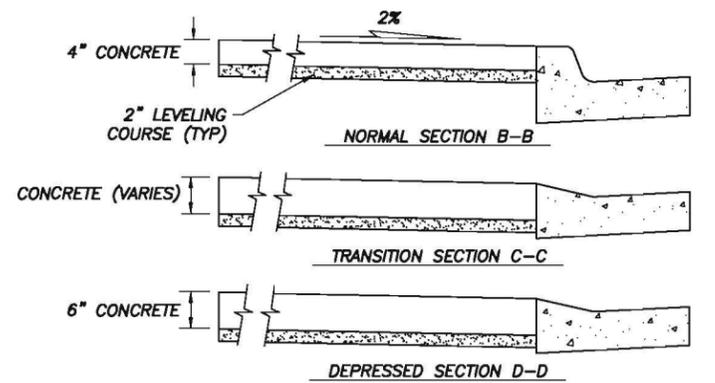
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 VIEW: C503\_H\_X7700  
 XREF: 08030\_04\_B001



**TYPICAL DRIVEWAY**



**SECTION A-A**

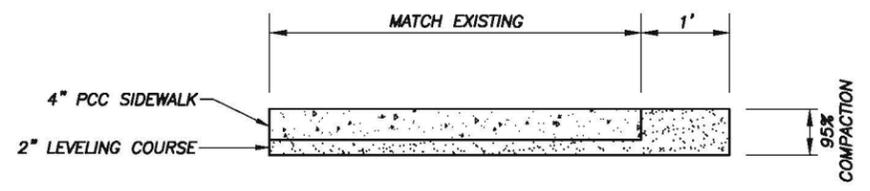


**P.C.C. DRIVEWAY CURB CUT SECTIONS**

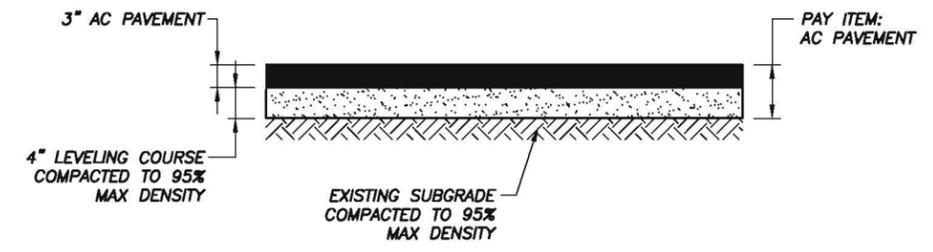
**1 P.C.C. DRIVEWAY DETAIL**  
SCALE: N.T.S.

**NOTES**

- RAMP WIDTH SHALL BE THE WIDTH OF THE SIDEWALK, OF WHICH AT LEAST 36" SHALL BE FREE OF OBSTRUCTIONS. LANDINGS AT TOPS AND BOTTOMS OF RAMPS SHALL BE 5' LONG AND HAVE A MAXIMUM 2% (50:1) SLOPE IN ALL DIRECTIONS.



**2 TYPICAL SIDEWALK SECTION**  
SCALE: NONE



**3 TYPICAL AC PAVEMENT SECTION**  
SCALE: NONE

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**NOT FOR CONSTRUCTION**

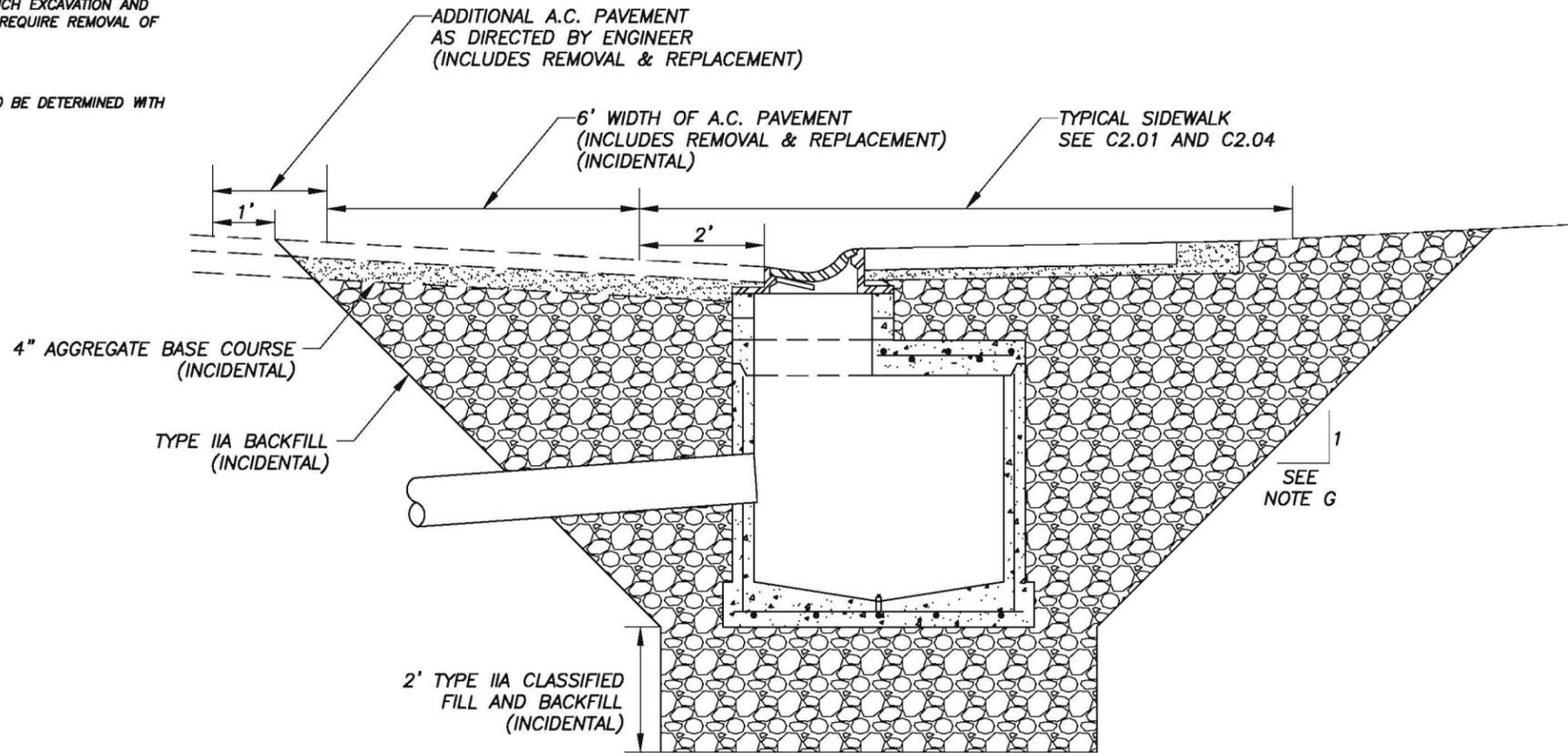
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SHEET TITLE: SIDEWALK AND DRIVEWAY DETAILS  
 SHEET: C2.04  
 DRAWN BY: TLC CHECKED BY: DWL  
 DATE: 2012 SCALE: NONE  
 JOB NUMBER: 12-016

**WORK ITEM NOTES**

- A. SEE SHEET C2.01 FOR DETAILS ON ALL OTHER WORK ITEMS.
- B. SEE DETAIL 1/C2.05 FOR DEPICTION OF CATCH BASIN WORK ITEMS.
- C. WORK ITEM LOCATIONS, LIMITS, AND LAYOUT SHALL BE COORDINATED IN THE FIELD WITH OWNER AND ENGINEER. PROVIDE KNOWLEDGEABLE AND SKILLED PERSONNEL AND COOPERATE TO DETERMINE AND MARK FINAL DIMENSIONS AND ELEVATIONS.
- D. OWNER/ENGINEER MAY DIRECT CONTRACTOR TO EXCAVATE ADDITIONAL SUBGRADE AND BACKFILL WITH CLASSIFIED MATERIAL. PAYMENT SHALL BE PER TON OF CLASSIFIED BACKFILL INSTALLED AS DIRECTED.
- E. OWNER/ENGINEER MAY DIRECT CONTRACTOR TO REMOVE AND REPLACE PAVEMENT BEYOND THE LIMITS INCLUDED IN THE CATCH BASIN PAY ITEM. PAYMENT SHALL BE PER SQUARE YARD OF NEW PAVEMENT INSTALLED AS DIRECTED.
- F. REMOVE AND REPLACE CATCH BASIN PAY ITEM INCLUDES EXCAVATION, REMOVAL AND DISPOSAL OF EXISTING CATCH BASIN, REMOVAL AND DISPOSAL OF EXISTING PAVEMENT, PREPARATION FOR NEW CATCH BASIN, TYPE IIA BACKFILL, AGGREGATE BASE COURSE, A.C. PAVEMENT, NEW CATCH BASIN STRUCTURE, REMOVAL AND REPLACEMENT OF EXISTING STORM DRAIN PIPING AS REQUIRED, AND RELATED WORK PER THE SPECIFICATIONS.
- G. TRENCH WALLS SHALL BE SLOPED OR SHORED AS REQUIRED FOR SAFETY, EXCEPT SHORING MUST BE USED IN EXISTING PAVED STREETS.
- H. ALL BEDDING, BACKFILL AND SURFACING SHALL BE COMPACTED TO THE SPECIFIED PERCENTAGE OF MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D1557 METHOD D, UNLESS OTHERWISE NOTED.
- I. NO ORGANIC MATERIAL WILL BE ALLOWED IN TRENCH BACKFILL.
- J. ANY EXCESS TRENCH EXCAVATION SHALL BE REMOVED BY CONTRACTOR AT NO ADDITIONAL COST.
- K. PROVIDE 4"x4.0' RIGID INSULATION WHERE LESS THAN 4' OF COVER OVER PIPE (INCIDENTAL).
- L. ON EXISTING PAVED STREETS, CONTRACTOR SHALL SEPARATE UPPER 3' OF TRENCH EXCAVATION FOR RE-USE AS SHOWN, WITHOUT CONTAMINATION WITH MATERIALS EXCAVATED LOWER IN THE TRENCH. WORK IS INCLUDED IN PAY ITEM "TRENCH EXCAVATION AND BACKFILL". WHERE MATERIAL IS NOT ADEQUATELY SEPARATED AND CONTAMINATION OCCURS, ENGINEER MAY REQUIRE REMOVAL OF MATERIAL AND REPLACEMENT WITH TYPE II CLASSIFIED FILL AT NO EXTRA COST TO OWNER.
- N. CONSTRUCT CATCH BASIN IN ACCORDANCE WITH CPSS STANDARD DETAIL 55.07
- O. APPROXIMATE INVERT ELEVATION = -X.XX' BELOW PROPOSED TBC ELEVATION FINAL INVERT ELEVATION TO BE DETERMINED WITH OWNER AND ENGINEER IN THE FIELD.



**1 CATCH BASIN WORK ITEMS**  
 C2.05 SCALE: NONE

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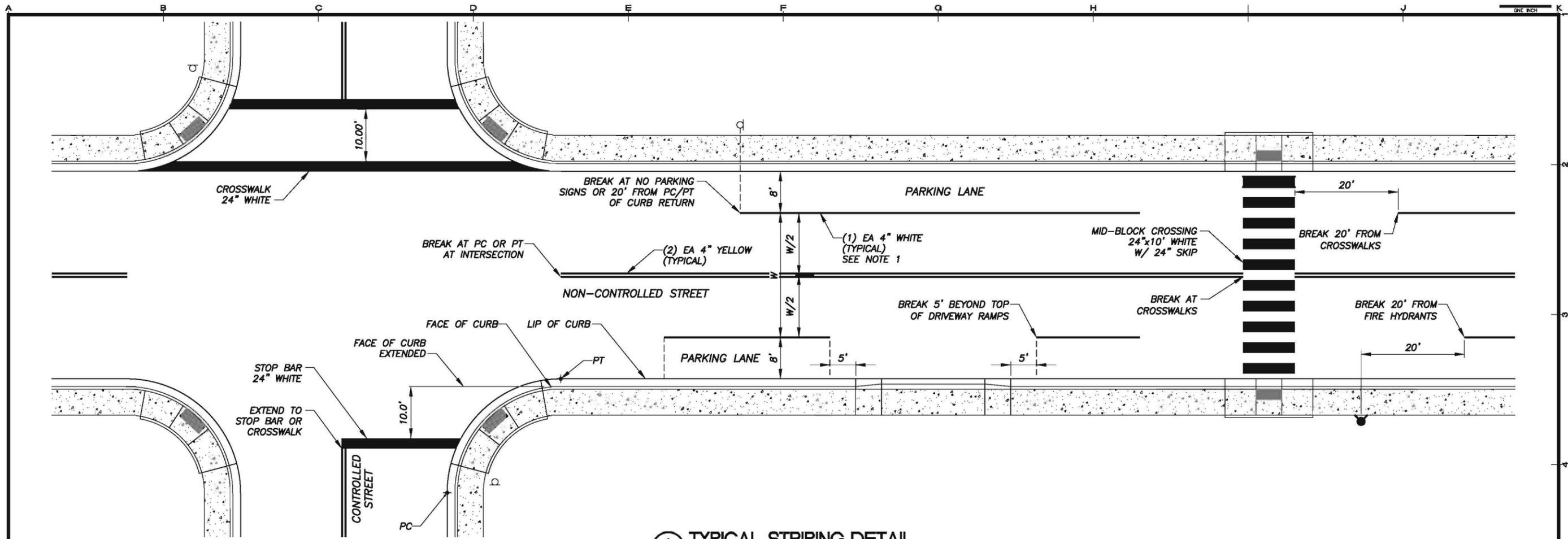
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SHEET TITLE STORM DRAIN DETAILS	
SHEET C2.05	
DRAWN BY TLC	CHECKED BY DWL
DATE 2012	SCALE NONE
JOB NUMBER 12-016	

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 VIEW: 6102\_H\_X7700  
 XREF: 09015\_04\_BDD1

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 LAYOUT: Layout1  
 REF: C502\_H\_L5000, C502\_H\_L7700  
 XREF: 06630\_04\_B001



**1** TYPICAL STRIPING DETAIL  
 C3.01 SCALE: N.T.S

- NOTES**
- IF PARKING LANE STRIPE LENGTH IS LESS THAN 20', OMIT.
  - PROVIDE STOP BARS AT ALL STOP CONTROLLED INTERSECTIONS WHICH DO NOT RECEIVE CROSSWALK.

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SHEET TITLE  
 TYPICAL STRIPING DETAIL

SHEET  
 C3.01

DRAWN BY TLC	CHECKED BY DWL
DATE 2012	SCALE NTS
JOB NUMBER 12-016	