

CITY OF FORTUNA

FORTUNA CITY HALL PARKING LOT ACCESSIBILITY & STORMWATER PROJECT

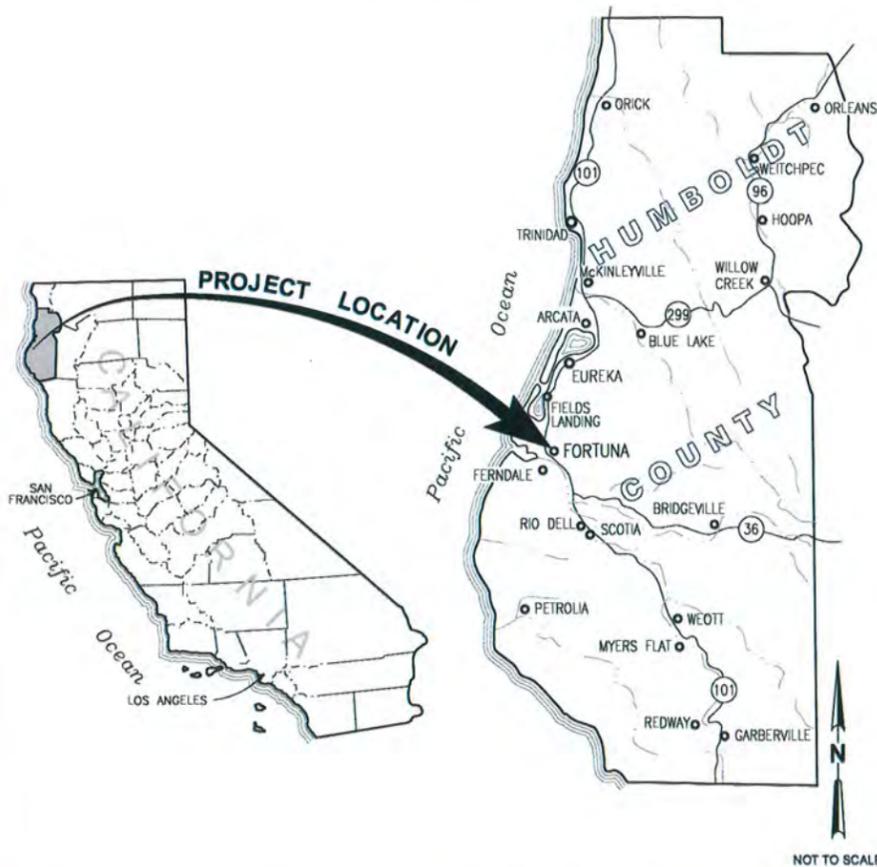
JULY 2014

JOB

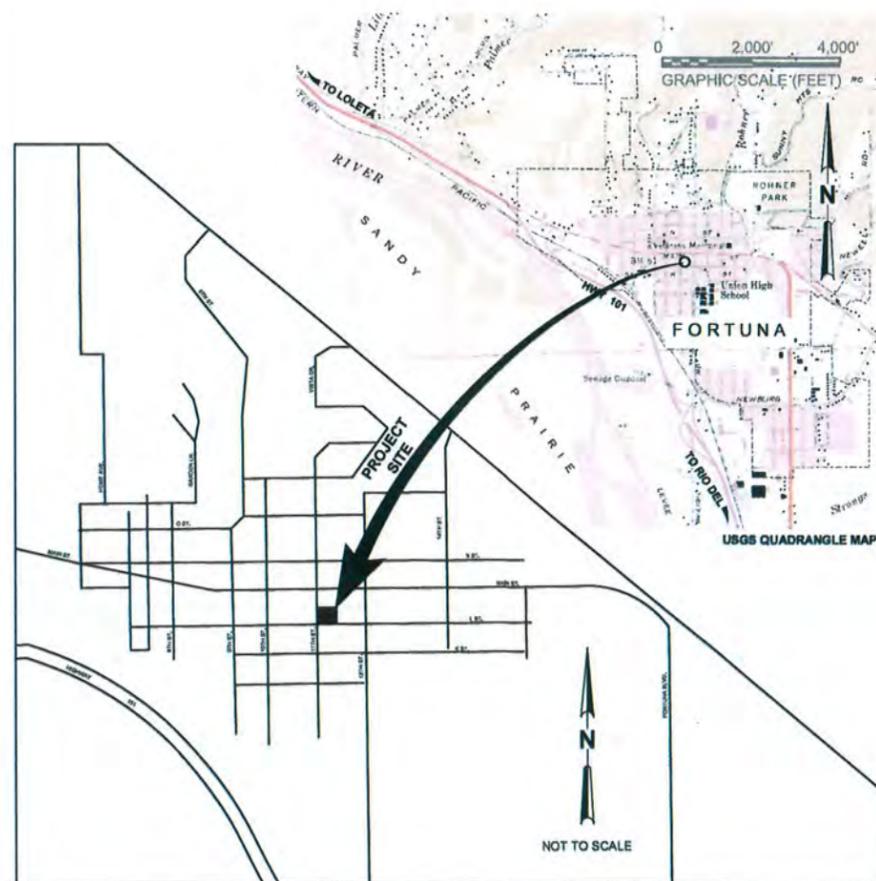
PREPARED BY



AREA MAP



LOCATION MAP



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APPROVALS

CITY OF FORTUNA REGAN M. CANDELARIO, CITY MANAGER/PUBLIC WORKS DIRECTOR	SIGNED	DATE 5/19/16
KEVIN CARTER, ENGINEERING DIVISION	SIGNED	DATE 5-19-16
GARY GOADE, BUILDING OFFICIAL	SIGNED	DATE 5-28-16
MERRITT PERRY, CITY ENGINEER	SIGNED	DATE 7/3/14
US POSTAL SERVICE POSTMASTER	SIGNED _____	DATE _____
ENGINEER: GHD Inc. JOSH WOLF, PE	SIGNED	DATE 7/3/14

No	Revision	Note	Drawn	Job Manager	Project Director	Date

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THIS BAR IS ONE INCH LONG ON ORIGINAL DRAWING.
0 1"



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Drafting Check JW	Design Check JW
Approved (Project Director) MP	Date 7/3/14
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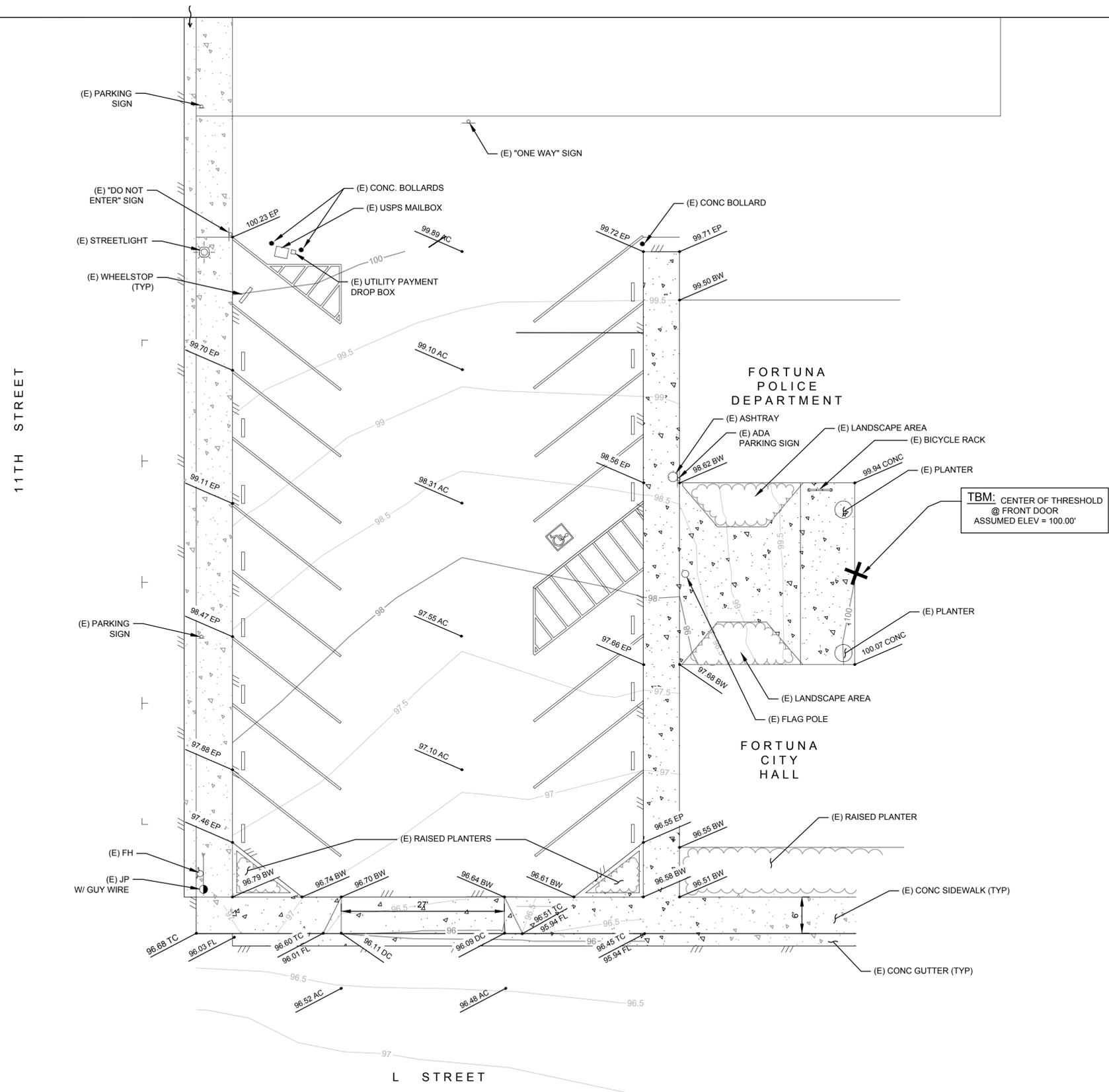
Client	CITY OF FORTUNA
Project	FORTUNA CITY HALL PARKING LOT ACCESSIBILITY & STORMWATER PROJECT
Title	COVER SHEET
Contract No.	8410751
Original Size	Ansi D
Drawing No.	G-001
Sheet	1 of 13
Rev.	0

GENERAL NOTES	WATER POLLUTION CONTROL NOTES	ABBREVIATIONS																																																																																																																																				
<p>1. THE EXISTING TOPOGRAPHIC SURVEY IS BASED UPON A RAG TAPE AND LEVEL SURVEY OF THE SITE BY THE CITY OF FORTUNA. CONTRACTOR SHALL CONFIRM ALL DIMENSIONS, ELEVATIONS, AND QUANTITIES PRIOR TO START OF CONSTRUCTION.</p> <p>2. A TEMPORARY BENCH MARK (TBM) HAS BEEN ESTABLISHED ON THE SITE ON THE FINISH GRADE OF THE CONCRETE AT THE CENTER OF THE THRESHOLD OF THE MAIN ENTRANCE TO CITY HALL, ELEVATION 100.00, ASSUMED DATUM. SEE SHEET C-101 FOR LOCATION OF THE TBM.</p> <p>3. THE CONTRACTOR SHALL CONFORM TO HARD SURFACES WHERE SHOWN, CONSTRUCT THE PROPOSED FACILITIES TO THE SLOPES SHOWN, THEN TAPER TO CONFORM TO EXISTING FACILITIES, AS SHOWN ON THE PLANS. WHERE SLOPES AND FINISH GRADE INFORMATION CONFLICT, FINISH GRADE ELEVATIONS SHALL PREVAIL.</p> <p>4. THE CONTRACTOR SHALL CONTACT THE CITY OF FORTUNA REGARDING THE PROTECTION AND PRESERVATION OF THE EXISTING TREES AND LANDSCAPING AT THE SITE, INCLUDING ANY SPECIAL CONSTRUCTION TECHNIQUES REQUIRED TO MINIMIZE THE POTENTIAL FOR DAMAGE TO THE TREES AND THEIR ROOT SYSTEMS.</p> <p>5. CONTRACTOR SHALL VERIFY ALL STATIONS, LOCATIONS, ELEVATIONS, AND SLOPES PRIOR TO STARTING CONSTRUCTION. ANY DISCREPANCIES SHALL BE IMMEDIATELY CALLED TO THE ENGINEER'S ATTENTION.</p> <p>6. THE CONSTRUCTION & INSTALLATION OF IMPROVEMENTS SHALL CONFORM TO THESE PLANS, THE CITY OF FORTUNA IMPROVEMENT STANDARDS AND SPECIFICATIONS, THE 2010 CALTRANS STANDARD SPECIFICATIONS; AND THE 2013 CALIFORNIA BUILDING CODE.</p> <p>7. ANY CHANGES TO THESE PLANS ARE TO RECEIVE PRIOR APPROVAL OF THE CITY ENGINEER.</p> <p>8. THE CONTRACTOR IS TO POTHOLE AND VERIFY THE EXISTENCE, LOCATION AND ELEVATION OF ALL UTILITIES PRIOR TO THE START OF WORK. THE LOCATIONS OF UNDERGROUND UTILITIES ARE NOT SHOWN ON THESE PLANS. THE ENGINEER MAKES NO GUARANTEE AS TO THE EXISTENCE, LOCATION, OR ELEVATION OF ANY UTILITIES SHOWN OR OMITTED FROM THESE PLANS. THE ENGINEER WILL ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF UNDERGROUND UTILITIES, WHETHER SHOWN ON THIS PLAN, OR NOT. THE CONTRACT IS TO NOTIFY UNDERGROUND SERVICE ALERT (USA) AT 1-800-642-2444 A MINIMUM OF 48 HOURS PRIOR TO STARTING WORK.</p> <p>9. CONSTRUCTION MATERIALS SHALL BE STORED SO AS TO ENSURE THE PRESERVATION OF THEIR QUALITY AND FITNESS FOR THE WORK. THEY SHALL BE LOCATED AND DISPOSED OF IN A MANNER SUCH THAT PROMPT AND PROPER INSPECTION MAY BE MADE.</p> <p>10. THE CONTRACTOR SHALL REMOVE FROM THE SITE AND LAWFULLY DISPOSE OF ALL DELETERIOUS MATERIAL (BROKEN CONCRETE, ASPHALT PAVEMENT, BASE MATERIAL, ROCKS STUMPS, ROOTS, LIMBS, ETC.) TO AN APPROVED DISPOSAL SITE.</p> <p>11. IF, IN THE COURSE OF DEVELOPMENT, ANY ARCHAEOLOGICAL, HISTORICAL, OR PALEONTOLOGICAL RESOURCES ARE UNCOVERED, CONSTRUCTION ACTIVITIES IN THE AFFECTED AREA SHALL CEASE AND A QUALIFIED ARCHAEOLOGIST SHALL BE CONTACTED TO REVIEW THE SITE AND ADVISE THE CITY OF THE SITE'S SIGNIFICANCE. IF THE FINDINGS ARE DEEMED SIGNIFICANT, APPROPRIATE MITIGATION SHALL BE REQUIRED PRIOR TO ANY RESUMPTION OF WORK ON THE PROJECT.</p> <p>12. THE PROPERTY LINES OF THE SUBJECT PARCEL ARE NOT SHOWN ON THESE PLANS. ALL WORK IS ANTICIPATED TO BE COMPLETED WITHIN THE SUBJECT PROPERTY & PUBLIC RIGHT OF WAY.</p> <p>13. FINISHED GRADING SHALL BE INDICATED ON THE PLANS AND TO THE SATISFACTION OF THE CITY ENGINEER</p>	<p>1. AT A MINIMUM, THE CONTRACTOR SHALL EMPLOY THE FOLLOWING BEST MANAGEMENT PRACTICES (BMPs) AS DESCRIBED IN THE CURRENT CALIFORNIA STORMWATER BMP HANDBOOK FOR CONSTRUCTION (WWW.CASQA.ORG):</p> <table border="0"> <tr><td>EC-1</td><td>SCHEDULING</td></tr> <tr><td>EC-2</td><td>PRESERVATION OF EXISTING VEGETATION</td></tr> <tr><td>EC-4</td><td>HYDROSEEDING</td></tr> <tr><td>SE-1</td><td>SILT FENCE</td></tr> <tr><td>SE-5</td><td>FIBER ROLLS</td></tr> <tr><td>SE-7</td><td>STREET SWEEPING AND VACUUMING</td></tr> <tr><td>SE-10</td><td>STORM DRAIN INLET PROTECTION</td></tr> <tr><td>WE-1</td><td>WIND EROSION CONTROL</td></tr> <tr><td>NS-3</td><td>PAVING AND GRINDING OPERATIONS</td></tr> <tr><td>NS-9</td><td>VEHICLE EQUIPMENT AND FUELING</td></tr> <tr><td>NS-10</td><td>VEHICLE & EQUIPMENT MAINTENANCE</td></tr> <tr><td>WM-1</td><td>MATERIALS DELIVERY AND STORAGE</td></tr> <tr><td>WM-2</td><td>MATERIAL USE</td></tr> <tr><td>WM-3</td><td>STOCKPILE MANAGEMENT</td></tr> <tr><td>WM-4</td><td>SPILL PREVENTION AND CONTROL</td></tr> <tr><td>WM-5</td><td>SOLID WASTE MANAGEMENT</td></tr> <tr><td>WM-8</td><td>CONCRETE WASTE MANAGEMENT</td></tr> <tr><td>WM-9</td><td>SANITARY/SEPTIC WASTE MANAGEMENT</td></tr> </table> <p>2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MINIMIZE EROSION AND PREVENT THE TRANSPORT OF SEDIMENT TO SENSITIVE AREAS.</p> <p>3. SUFFICIENT EROSION CONTROL SUPPLIES SHALL BE AVAILABLE ON-SITE AT ALL TIMES TO DEAL WITH AREAS SUSCEPTIBLE TO EROSION DURING RAIN EVENTS.</p> <p>4. MINIMIZE DISTURBANCE OF EXISTING VEGETATION TO THAT NECESSARY TO COMPLETE THE WORK.</p> <p>5. THE CONTRACTOR SHALL MAKE ADEQUATE PREPARATIONS, INCLUDING TRAINING & EQUIPMENT, TO CONTAIN SPILLS OF OIL AND OTHER HAZARDOUS MATERIALS.</p> <p>6. ACTIVITIES SUCH AS VEHICLE WASHING ARE TO BE CARRIED OUT AT AN OFF-SITE FACILITY WHEREIN THE WATER IS DISCHARGED INTO A SANITARY SEWER.</p> <p>7. THE CONTRACTOR SHALL PROVIDE COVERED WASTE RECEPTACLE FOR COMMON SOLID WASTES AT CONVENIENT LOCATIONS ON THE JOB SITE AND PROVIDE REGULAR COLLECTION OF WASTES.</p> <p>8. THE CONTRACTOR SHALL PROVIDE SANITARY FACILITIES OF SUFFICIENT NUMBER AND SIZE TO ACCOMMODATE CONSTRUCTION CREWS AND ENSURE ADEQUATE ANCHORAGE OF SUCH FACILITIES TO PREVENT THEM FROM BEING TIPPED BY THE WEATHER OR VANDALISM.</p> <p>9. APPROPRIATE STORAGE AND DISPOSAL OF WATER FROM DEWATERING OPERATIONS SHALL BE EXERCISED IN THE EVENT THAT ACCUMULATED WATER MUST BE REMOVED FROM A WORK LOCATION.</p> <p>10. COVERED AND SECURED STORAGE AREAS FOR POTENTIALLY TOXIC MATERIALS SHALL BE PROVIDED. ALL HAZARDOUS MATERIAL CONTAINERS SHOULD BE PLACED IN SECONDARY CONTAINMENT.</p> <p>11. VEHICLE AND EQUIPMENT & MAINTENANCE SHOULD BE PERFORMED OFF-SITE WHENEVER PRACTICAL.</p> <p>12. SOIL STOCKPILES SHALL BE COVERED, AND LOCATED AT LEAST 50 FEET AWAY FROM DRAINAGE CHANNELS AND STORMWATER SYSTEMS.</p> <p>13. CONTRACTOR MUST ENSURE THAT THE CONSTRUCTION SITE IS PREPARED PRIOR TO THE ONSET OF ANY STORM.</p> <p>14. ALL SEDIMENT DEPOSITED ON PAVED SURFACES SHALL BE SWEEPED AT THE END OF EACH WORKING DAY, AS NECESSARY OR AS DIRECTED BY THE OWNERS REPRESENTATIVE. A STABILIZED CONSTRUCTION ENTRANCE MAY BE REQUIRED TO PREVENT SEDIMENT FROM BEING DEPOSITED ON PAVED ROADWAYS.</p> <p>15. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED IN ACCORDANCE TO THEIR RESPECTIVE BMP FACT SHEET UNTIL DISTURBED AREAS ARE STABILIZED.</p> <p>16. THIS PLAN MAY NOT COVER ALL THE SITUATIONS THAT ARISE DURING CONSTRUCTION DUE TO UNANTICIPATED FIELD CONDITIONS. VARIATIONS MAY BE MADE TO THE PLAN IN THE FIELD SUBJECT TO THE APPROVAL OF OR AT THE DIRECTION OF THE OWNERS REPRESENTATIVE.</p> <p>17. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO FIX ANY DEFICIENCIES INDICATED BY THE OWNER OR THE OWNERS REPRESENTATIVE TO PREVENT EROSION AND CONTROL SEDIMENT.</p> <p>18. PRIOR TO FINAL ACCEPTANCE ALL DISTURBED AREAS OF THE SITE SHALL BE PERMANENTLY STABILIZED WITH HYDROSEED BY CONTRACTOR AND TEMPORARY SEDIMENT CONTROL MEASURES SHALL BE REMOVED AS DIRECTED.</p>	EC-1	SCHEDULING	EC-2	PRESERVATION OF EXISTING VEGETATION	EC-4	HYDROSEEDING	SE-1	SILT FENCE	SE-5	FIBER ROLLS	SE-7	STREET SWEEPING AND VACUUMING	SE-10	STORM DRAIN INLET PROTECTION	WE-1	WIND EROSION CONTROL	NS-3	PAVING AND GRINDING OPERATIONS	NS-9	VEHICLE EQUIPMENT AND FUELING	NS-10	VEHICLE & EQUIPMENT MAINTENANCE	WM-1	MATERIALS DELIVERY AND STORAGE	WM-2	MATERIAL USE	WM-3	STOCKPILE MANAGEMENT	WM-4	SPILL PREVENTION AND CONTROL	WM-5	SOLID WASTE MANAGEMENT	WM-8	CONCRETE WASTE MANAGEMENT	WM-9	SANITARY/SEPTIC WASTE MANAGEMENT	<table border="0"> <tr> <td>AB</td><td>AGGREGATE BASE</td> <td>HC</td><td>HANDICAPPED</td> </tr> <tr> <td>AC</td><td>ASPHALT CONCRETE</td> <td>INV</td><td>INVERT</td> </tr> <tr> <td>BC</td><td>BEGINNING OF CURVE</td> <td>LF</td><td>LINEAR FEET</td> </tr> <tr> <td>BLD</td><td>BUILDING</td> <td>MH</td><td>MANHOLE</td> </tr> <tr> <td>BW</td><td>BACK OF WALK</td> <td><P></td><td>PROPOSED</td> </tr> <tr> <td>CL</td><td>CENTERLINE</td> <td>PCC</td><td>PORTLAND CEMENT CONCRETE</td> </tr> <tr> <td>CONC</td><td>CONCRETE</td> <td>PM</td><td>PARCEL MAPS</td> </tr> <tr> <td>DC</td><td>DROP CURB</td> <td>POC</td><td>POINT ON CURVE</td> </tr> <tr> <td><E></td><td>EXISTING</td> <td>ROW</td><td>RIGHT-OF-WAY</td> </tr> <tr> <td>EC</td><td>END OF CURVE</td> <td>SF</td><td>SQUARE FEET</td> </tr> <tr> <td>ELEC</td><td>ELECTRIC</td> <td>SW</td><td>SIDEWALK</td> </tr> <tr> <td>EP</td><td>EDGE OF PAVEMENT</td> <td>TC</td><td>TOP OF CURB</td> </tr> <tr> <td>FF</td><td>FINISH FLOOR</td> <td>(TYP)</td><td>TYPICAL</td> </tr> <tr> <td>FG</td><td>FINISH GRADE</td> <td>UG</td><td>UNDERGROUND</td> </tr> <tr> <td>FH</td><td>FIRE HYDRANT</td> <td>WM</td><td>WATER METER</td> </tr> <tr> <td>FL</td><td>FLOW LINE</td> <td></td><td></td> </tr> <tr> <td>FT</td><td>FEET</td> <td></td><td></td> </tr> <tr> <td>GD</td><td>GROUND</td> <td></td><td></td> </tr> </table> <p>NOTE: CONTACT CITY'S REPRESENTATIVE FOR ABBREVIATIONS NOT LISTED.</p> <p>SYMBOLS</p> <table border="0"> <tr> <td></td> <td>(E) CONCRETE</td> </tr> <tr> <td></td> <td>(N) CONCRETE PAVING</td> </tr> <tr> <td></td> <td>(N) ASPHALT CONCRETE PAVING</td> </tr> <tr> <td></td> <td>(N) LANDSCAPE AREA</td> </tr> <tr> <td></td> <td>DEMOLISH AND REMOVE (E) AC OR CONCRETE PAVING</td> </tr> <tr> <td></td> <td>(E) ASPHALT CONCRETE TO REMAIN</td> </tr> <tr> <td></td> <td>CONFORM GRIND (E) AC</td> </tr> <tr> <td></td> <td>CLEAR AND GRUB AREAS</td> </tr> <tr> <td></td> <td>EXISTING GRADE ELEVATIONS</td> </tr> <tr> <td></td> <td>FINISH GRADE ELEVATIONS</td> </tr> <tr> <td></td> <td>DIRECTION OF SURFACE DRAINAGE</td> </tr> <tr> <td></td> <td>LIMIT OF WORK/LIMIT OF DEMOLITION</td> </tr> </table> <p>NOTE: CONTACT CITY'S REPRESENTATIVE FOR ABBREVIATIONS NOT LISTED.</p>	AB	AGGREGATE BASE	HC	HANDICAPPED	AC	ASPHALT CONCRETE	INV	INVERT	BC	BEGINNING OF CURVE	LF	LINEAR FEET	BLD	BUILDING	MH	MANHOLE	BW	BACK OF WALK	<P>	PROPOSED	CL	CENTERLINE	PCC	PORTLAND CEMENT CONCRETE	CONC	CONCRETE	PM	PARCEL MAPS	DC	DROP CURB	POC	POINT ON CURVE	<E>	EXISTING	ROW	RIGHT-OF-WAY	EC	END OF CURVE	SF	SQUARE FEET	ELEC	ELECTRIC	SW	SIDEWALK	EP	EDGE OF PAVEMENT	TC	TOP OF CURB	FF	FINISH FLOOR	(TYP)	TYPICAL	FG	FINISH GRADE	UG	UNDERGROUND	FH	FIRE HYDRANT	WM	WATER METER	FL	FLOW LINE			FT	FEET			GD	GROUND				(E) CONCRETE		(N) CONCRETE PAVING		(N) ASPHALT CONCRETE PAVING		(N) LANDSCAPE AREA		DEMOLISH AND REMOVE (E) AC OR CONCRETE PAVING		(E) ASPHALT CONCRETE TO REMAIN		CONFORM GRIND (E) AC		CLEAR AND GRUB AREAS		EXISTING GRADE ELEVATIONS		FINISH GRADE ELEVATIONS		DIRECTION OF SURFACE DRAINAGE		LIMIT OF WORK/LIMIT OF DEMOLITION
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No Revision Note: * indicates signatures on original issue of drawing or last revision of drawing					Drawn		Job Manager		Project Director		Date		Scale AS SHOWN		This Drawing shall not be used for Construction unless Signed and Sealed For Construction		Original Size		Sheet 2 of 13	
													Ansi D		Drawing No: G-002		Rev: 0			

SHEET GENERAL NOTES

1. TOPOGRAPHIC SURVEY PREPARED BY THE CITY OF FORTUNA. SEE GENERAL NOTES ON SHEET G-002.
2. LOCATION OF EXISTING UTILITIES & STRUCTURES ARE FROM INFORMATION AVAILABLE AT TIME OF DESIGN. EXACT LOCATION AND COMPLETENESS ARE NOT GUARANTEED. CONTRACTOR SHALL NOTIFY THE CITY AND UNDERGROUND SERVICES ALERT (800) 227-2600 A MIN. OF 72 HOURS PRIOR TO ANY EXCAVATION AND POTHOLE FOR EXACT LOCATION.



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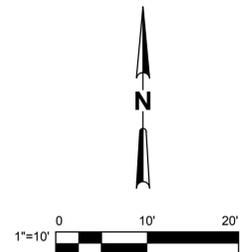
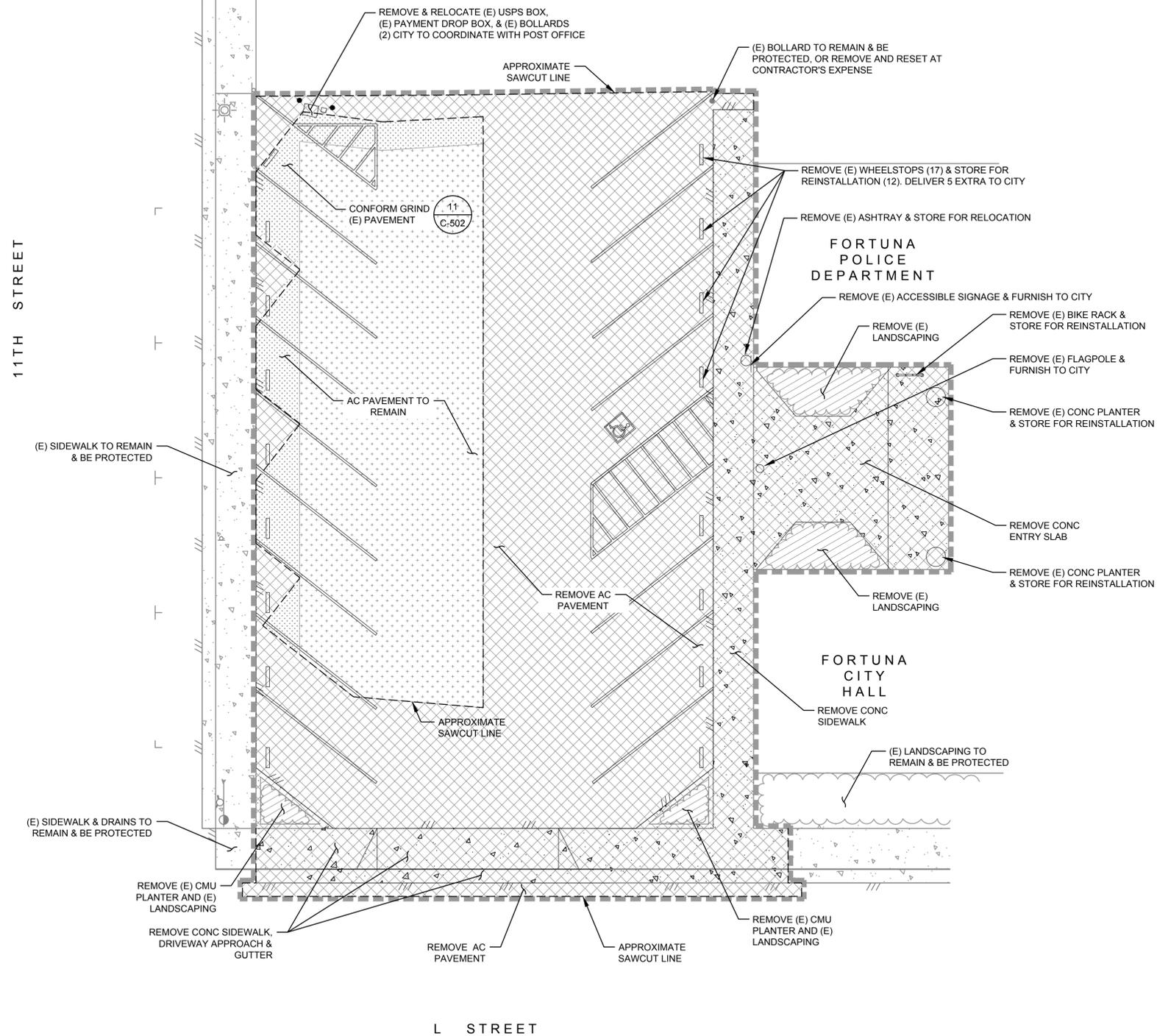
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LEGEND

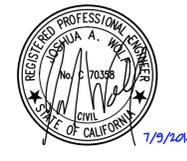
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-  (E) AC TO REMAIN
-  CONFORM GRIND (E) AC 11
C-502
-  CLEAR AND GRUB. REMOVE ALL VEGETATIVE MATTER AND OTHER DELETERIOUS MATERIALS.
-  APPROXIMATE SAWCUT LINE
-  LIMIT OF DEMOLITION



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Drafting	JW	Design Check	JW
Approved (Project Director)	MP	Date	7/9/2014
Scale	AS SHOWN	This Drawing shall not be used for Construction unless Signed and Sealed For Construction	

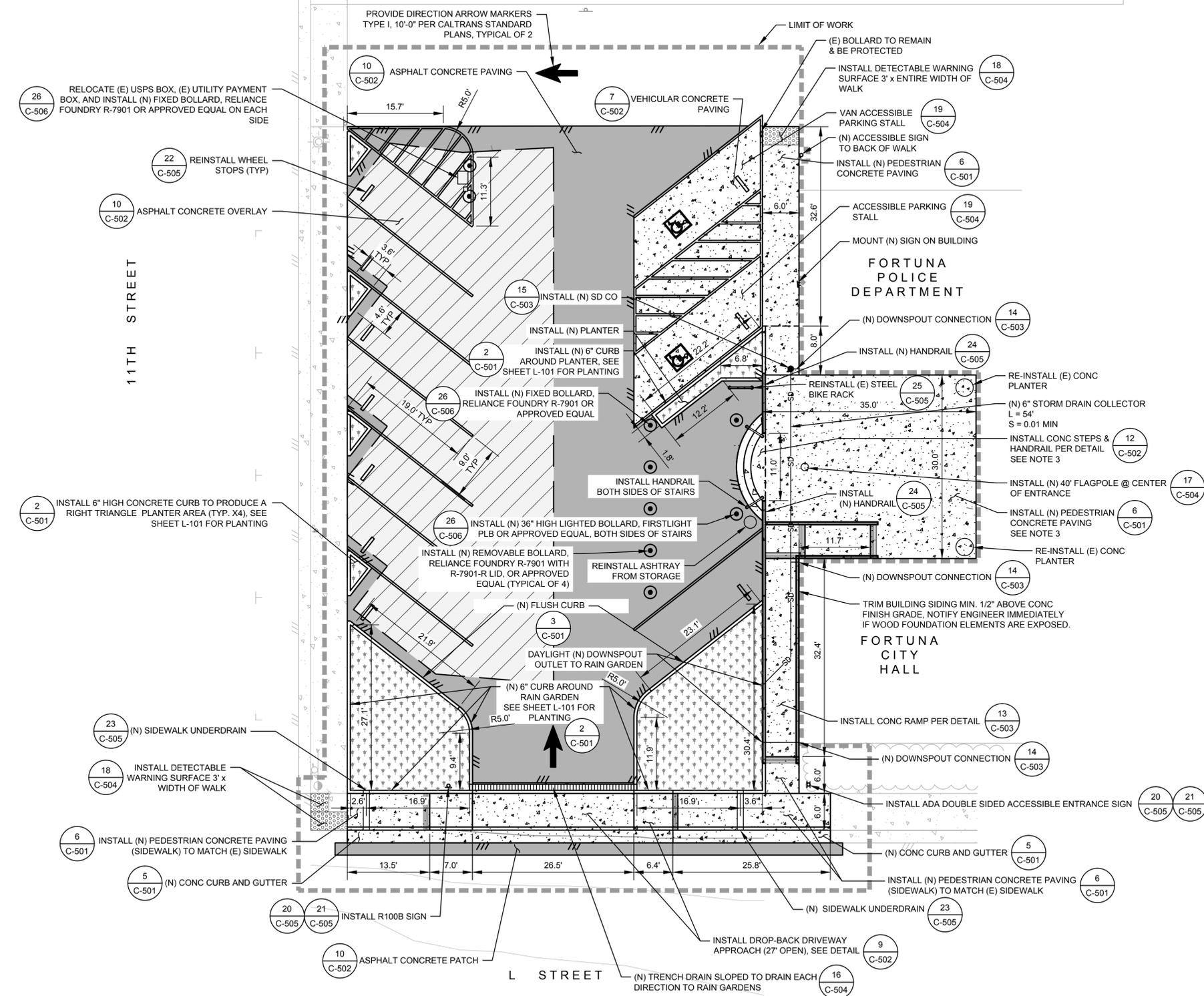
Client	CITY OF FORTUNA
Project	FORTUNA CITY HALL PARKING LOT ACCESSIBILITY & STORMWATER PROJECT
Title	DEMOLITION PLAN
Contract No.	8410751
Original Size	11 x 17
Ansi D	Drawing No: C-102
Sheet	4 of 13
Revision	Rev: 0

SHEET GENERAL NOTES

1. ALL CONSTRUCTION ACTIVITY SHALL BE CONFINED WITHIN THE LIMIT OF WORK SHOWN, UNLESS OTHERWISE NOTED OR APPROVED BY THE OWNER.
2. PROVIDE TACK COAT TO ALL VERTICAL SURFACES OF EXISTING PAVEMENT, CURBS, GUTTERS AND CONSTRUCTION JOINTS IN THE SURFACING AGAINST WHICH NEW ASPHALT CONCRETE PAVING IS PLACED.
3. CONCRETE WORK AT ENTRYWAY AND STEPS TO BE COLORED GREY USING FOUR POUNDS OF LAMP BLACK PER CUBIC YARD OF CONCRETE, AND STAMPED WITH A SLATE PATTERN. CONFIRM COLOR AND STAMP PATTERN WITH CITY PRIOR TO INSTALLATION.

LEGEND

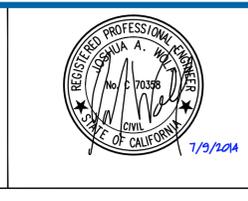
	CONCRETE PAVING, SEE DETAILS	6 C-501	7 C-502	9 C-502
	0.25' ASPHALT CONCRETE OR PATCH PAVING	10 C-502		
	0.15' ASPHALT CONCRETE OVERLAY	10 C-502		
	RAINGARDEN / LANDSCAPING			
	LIMIT OF WORK			



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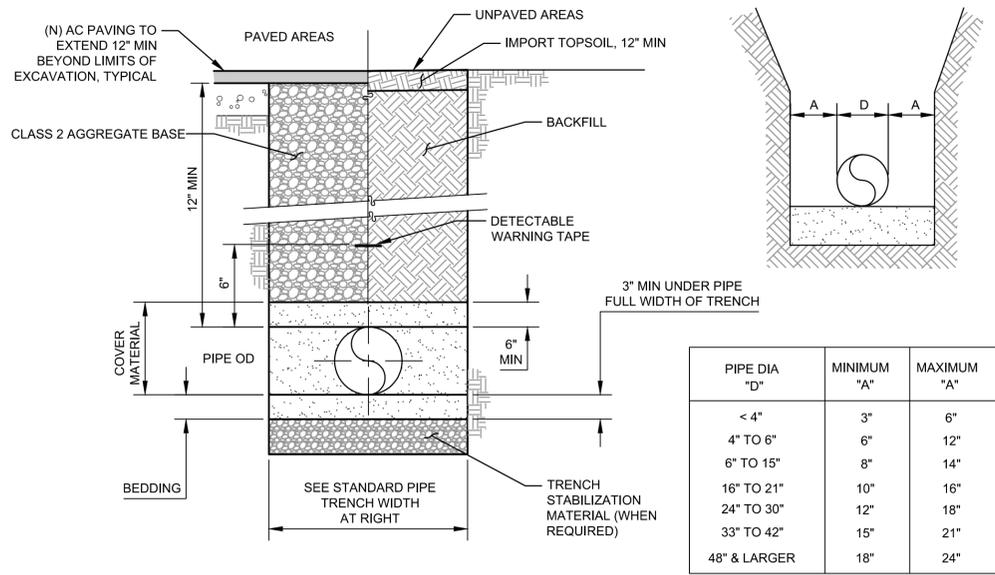
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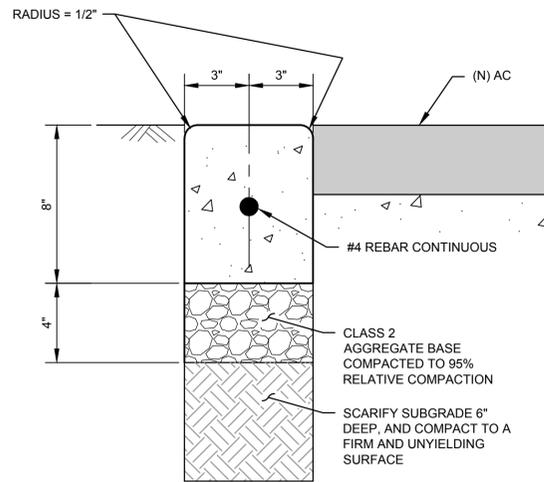
Client **CITY OF FORTUNA**
 Project **FORTUNA CITY HALL PARKING LOT ACCESSIBILITY & STORMWATER PROJECT**
 Title **SITE PLAN**
 Contract No. 8410751
 Original Size
Ansi D Drawing No: C-103
 Sheet 5 of 13
 Rev: 0



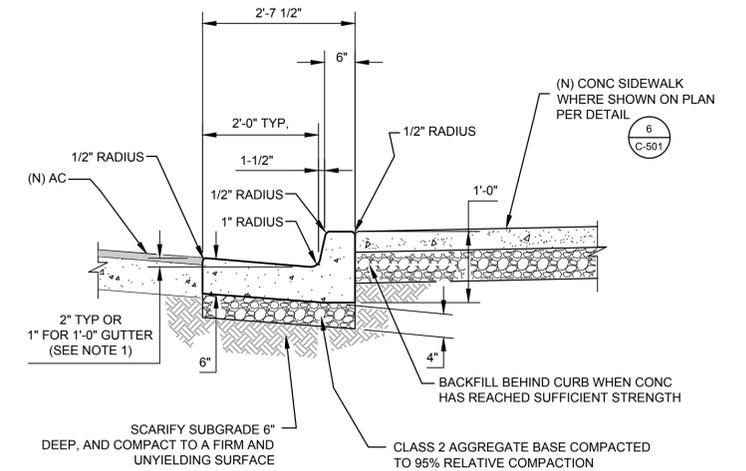
PIPE DIA "D"	MINIMUM "A"	MAXIMUM "A"
< 4"	3"	6"
4" TO 6"	6"	12"
6" TO 15"	8"	14"
16" TO 21"	10"	16"
24" TO 30"	12"	18"
33" TO 42"	15"	21"
48" & LARGER	18"	24"

- NOTES:**
- WIDER TRENCHES MAY REQUIRE HIGHER STRENGTH PIPE AND/OR SPECIAL BEDDING.
 - FOR MULTIPLE PIPE TRENCHES, SEPARATE PIPES BY 12". FOR CONDUITS IN PIPE TRENCH SEPARATE BY 6".
 - DIFFERING TRENCH WIDTHS REQUIRE PRIOR APPROVAL OF ENGINEER.
 - IN MAKING EXCAVATIONS FOR THIS PROJECT, THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR PROVIDING & INSTALLING ADEQUATE SHEETING, SHORING & BRACING AS MAY BE NECESSARY AS A PRECAUTION AGAINST SLIDES OR CAVE-INS, AND TO PROTECT ALL (E) IMPROVEMENTS OF ANY KIND, EITHER ON PUBLIC OR PRIVATE PROPERTY, FULLY FROM DAMAGE.
 - SATISFACTORY NATIVE BACKFILL MATERIAL USED AS UTILITY TRENCH BACKFILL BELOW UNPAVED AREAS SHALL BE APPROVED BY THE ENGINEER PRIOR TO USE.
 - 2-SACK SLURRY BACKFILL MAY BE USED IN TRENCH WHEN MINIMUM PIPE COVER NOT POSSIBLE, WHEN APPROVED BY ENGINEER.
 - DETECTABLE WARNING TAPE SHALL BE BRIGHT COLORED, CONTINUOUSLY PRINTED, MINIMUM 6" WIDE BY 4 MIL. THICK, MANUFACTURED FOR DIRECT BURIAL.

1 TYPICAL TRENCH DETAIL
SCALE: NTS

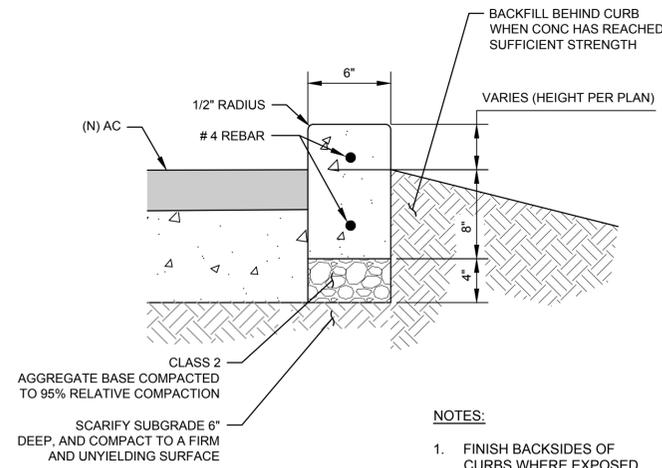


3 STANDARD CONCRETE FLUSH CURB
SCALE: NTS



- NOTES:**
- ACROSS THE PEDESTRIAN ROUTE AT CURB RAMP LOCATIONS, THE GUTTER PAN SLOPE SHALL NOT EXCEED 1" OF DEPTH FOR EACH 2'-0" OF WIDTH.
 - CURB AND GUTTER MAY BE PAVED MONOLITHIC WITH SIDEWALK AT CONTRACTOR'S OPTION.

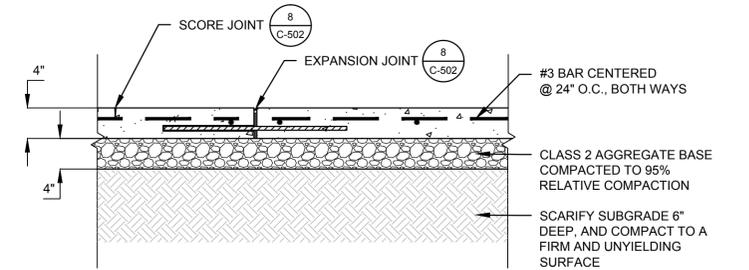
5 TYPICAL CURB AND GUTTER DETAIL - TYPE A2-6
SCALE: NTS



- NOTES:**
- FINISH BACKSIDES OF CURBS WHERE EXPOSED.

2 TYPICAL CONCRETE CURB DETAIL
SCALE: NTS

4 NOT USED
SCALE: NTS



- NOTES:**
- 6" HIGH WARNING CURB REQUIRED PER CBC WHEN VERTICAL DROP ADJACENT TO SIDEWALK EXCEEDS 4". 6" HIGH RETAINING CURB MAY BE USED AS FIELD CONDITIONS WARRANT OR AS DIRECTED BY THE CITY'S PROJECT MANAGER IN THE FIELD.
 - WALKS AND SIDEWALKS SHALL CONFORM TO THE 2013 CBC.
 - SLOPE CONCRETE PAVING SECTIONS AWAY FROM BUILDINGS AND OTHER STRUCTURES AND TOWARDS STREETS AND DRAINAGE FACILITIES.
 - MAXIMUM CROSS SLOPE OF SIDEWALKS AND WALKWAYS SHALL BE 2%.
 - WHERE (N) CONCRETE PAVING ABUTS (E) CONCRETE PAVING, DRILL AND DOWEL #4 REBAR 6" INTO (E) CONCRETE PAVING @ 24" O.C. AND PROVIDE EXPANSION JOINT, PER

6 TYPICAL PEDESTRIAN CONCRETE PAVING DETAIL
SCALE: NTS

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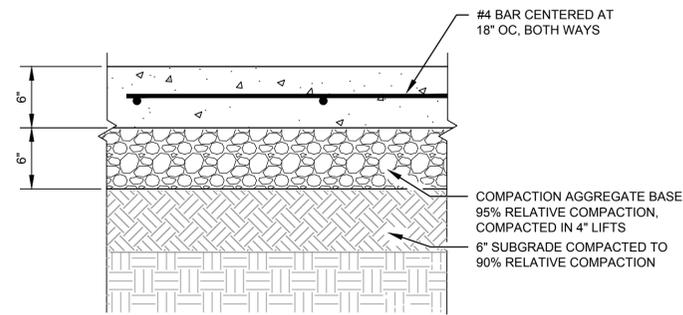
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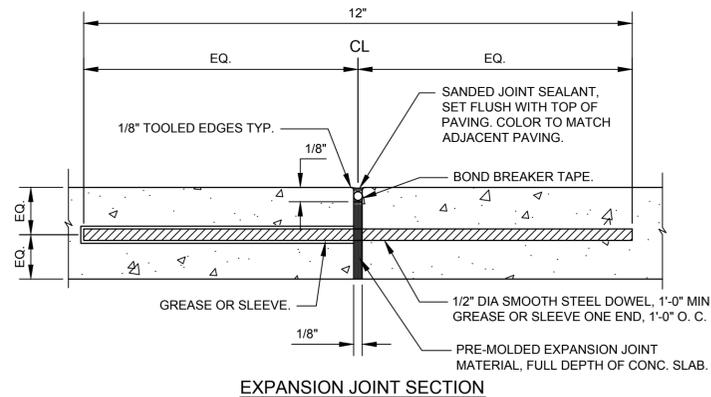
Drawn COF/SJD	Designer TD
Drafting JW	Design Check JW
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Client CITY OF FORTUNA	Project FORTUNA CITY HALL PARKING LOT ACCESSIBILITY & STORMWATER PROJECT	Contract No. 8410751
Title CONSTRUCTION DETAILS	Original Size	Sheet 7 of 13
Scale	Drawing No: C-501	Rev: 0

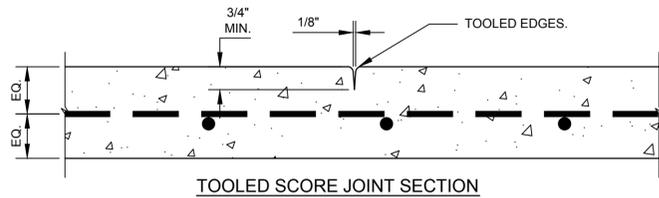


- NOTES:**
1. DRILL AND DOWEL #4'S AT 24" O.C. INTO (E) CONCRETE SLABS OR (N) ADJACENT GUTTERS.
 2. PROVIDE 3/4" DEEP SCORE JOINT EVERY 20 FEET OC, EW OR AS DIRECTED BY OWNER'S REPRESENTATIVE.
 3. PROVIDE SCORE JOINTS AND EXPANSION JOINTS PER 8 C-502

7 **TYPICAL VEHICULAR CONCRETE PAVING DETAIL**
SCALE: NTS



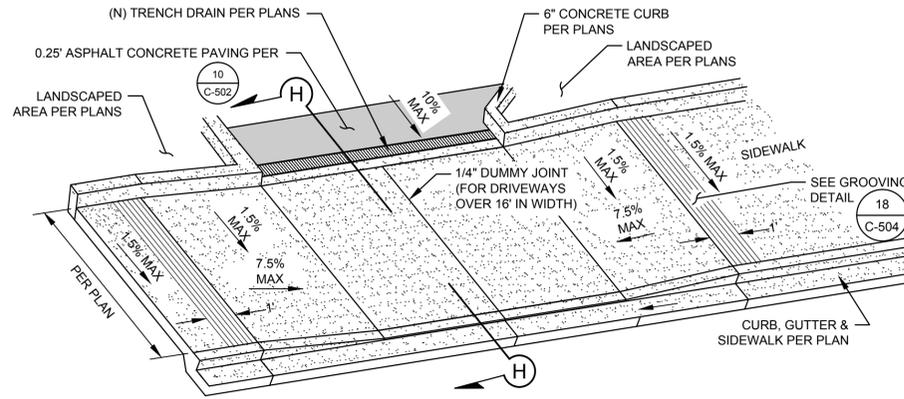
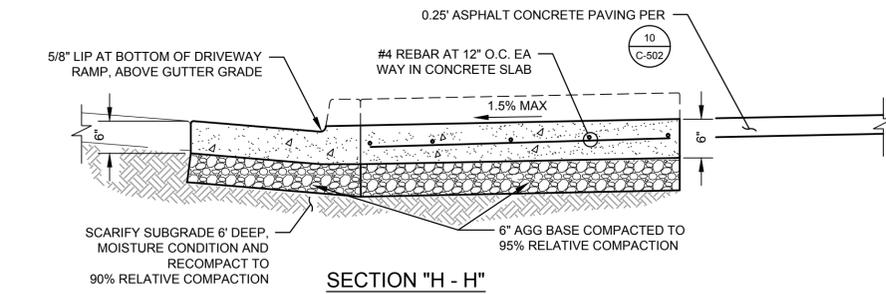
EXPANSION JOINT SECTION



TOOLED SCORE JOINT SECTION

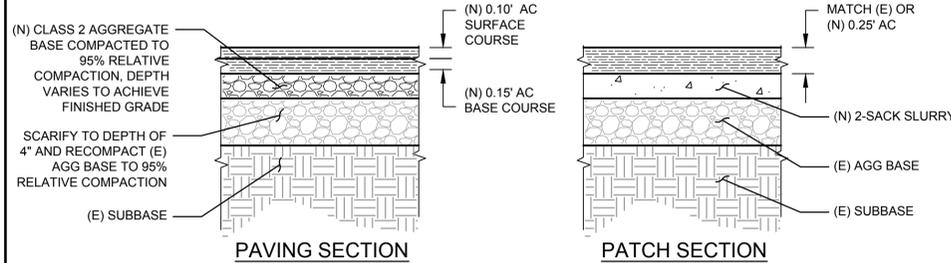
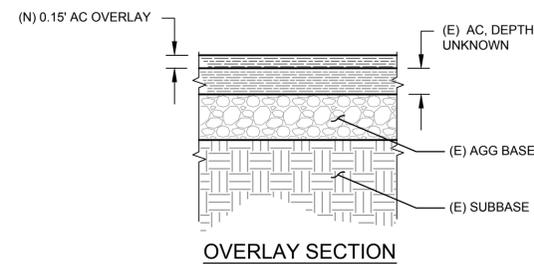
- NOTES:**
1. LOCATE EXPANSION JOINTS AT INTERVALS OF NOT MORE THAN 20 FEET, UNLESS INDICATED OTHERWISE, OR AS DIRECTED BY OWNER'S REPRESENTATIVE.
 2. FORM TOOLED SCORE JOINTS IN FRESH CONCRETE BY GROOVING AND FINISHING EACH EDGE OF JOINT WITH A RADIUS JOINTER TOOL. LOCATE TOOLED SCORE JOINTS AT INTERVALS OF NOT MORE THAN 5 FEET, UNLESS INDICATED OTHERWISE.

8 **TYPICAL CONCRETE JOINTS DETAIL**
SCALE: NTS

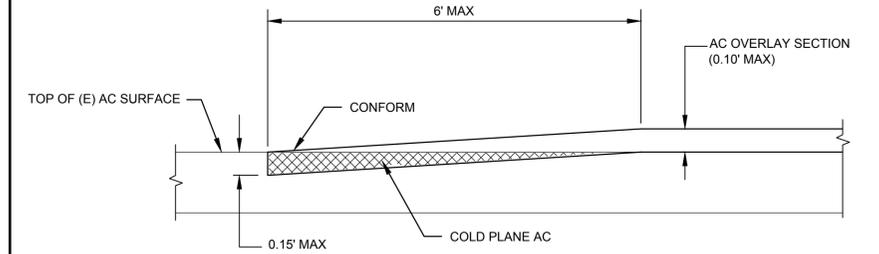


- NOTES:**
1. CONCRETE SURFACE SHALL BE TROWELED SMOOTH & HAIR BROOMED.

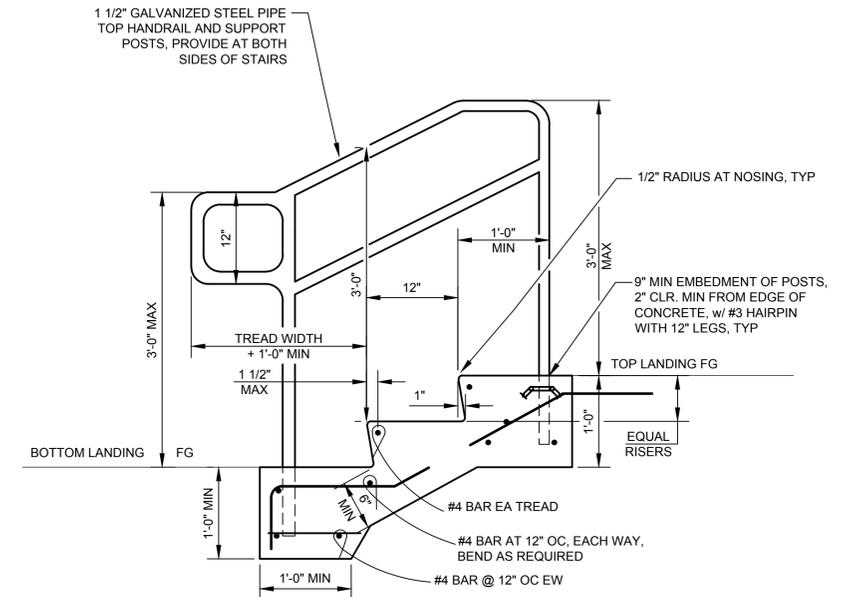
9 **STANDARD DRIVEWAY DETAIL**
SCALE: NTS



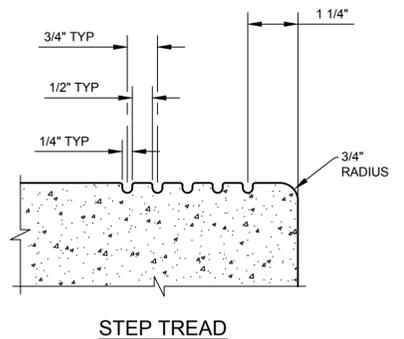
10 **TYPICAL ASPHALT CONCRETE SECTIONS**
SCALE: NTS



11 **TYPICAL PAVING CONFORM TO EXISTING PAVEMENT**
SCALE: NTS



- NOTES:**
1. CONCRETE SHALL BE A LIGHT BROOM FINISH.
 2. RISERS SHALL BE NO LESS THAN 4" TALL AND NO GREATER THAN 7" TALL.
 3. ALL EXTERIOR STAIR THREADS SHALL HAVE 2" WIDE MIN. WARNING STRIPES PER THE 2013 CBC.
 4. POUR CONCRETE OVER COMPACTED SUBGRADE.
 5. STAIR RISE & TREAD TO BE DETERMINED FOR SITE CONDITIONS BASED ON REQUIREMENTS.
 6. THE TOP AND BOTTOM LANDINGS SHALL SLOPE NO MORE THAN 2% IN ANY DIRECTION.



12 **TYPICAL STAIR DETAIL**
SCALE: NTS

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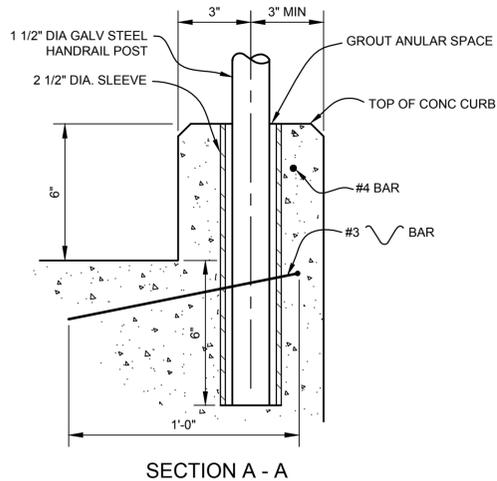
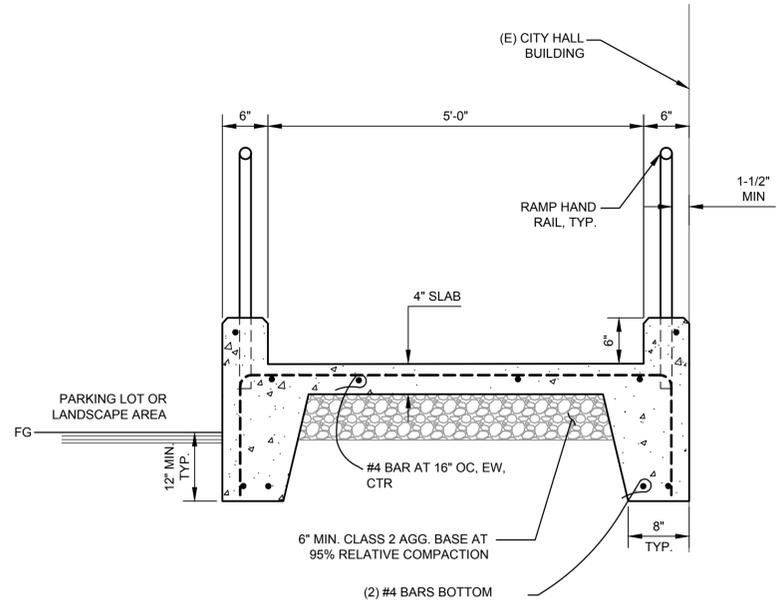
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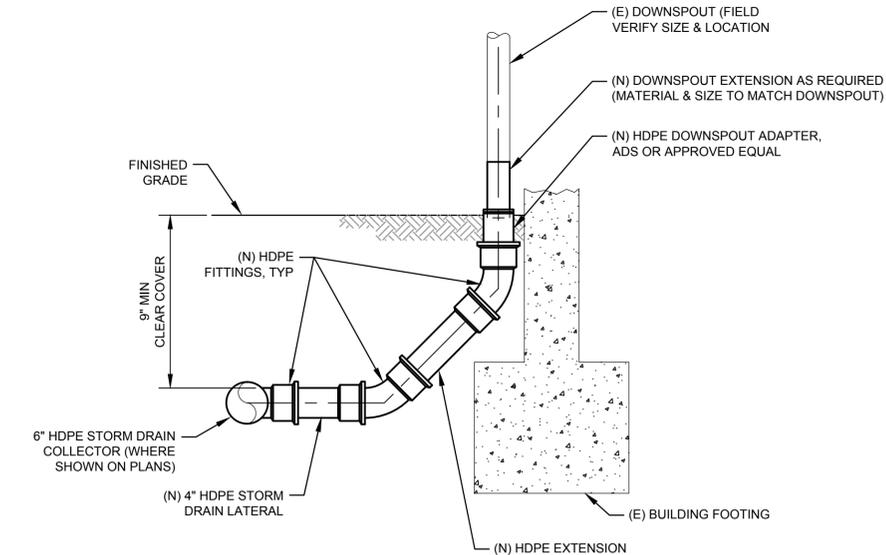
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Client	CITY OF FORTUNA
Project	FORTUNA CITY HALL PARKING LOT ACCESSIBILITY & STORMWATER PROJECT
Title	CONSTRUCTION DETAILS
Contract No.	8410751
Original Size	ANSI D
Drawing No.	C-502
Sheet	8 of 13
Rev.	0

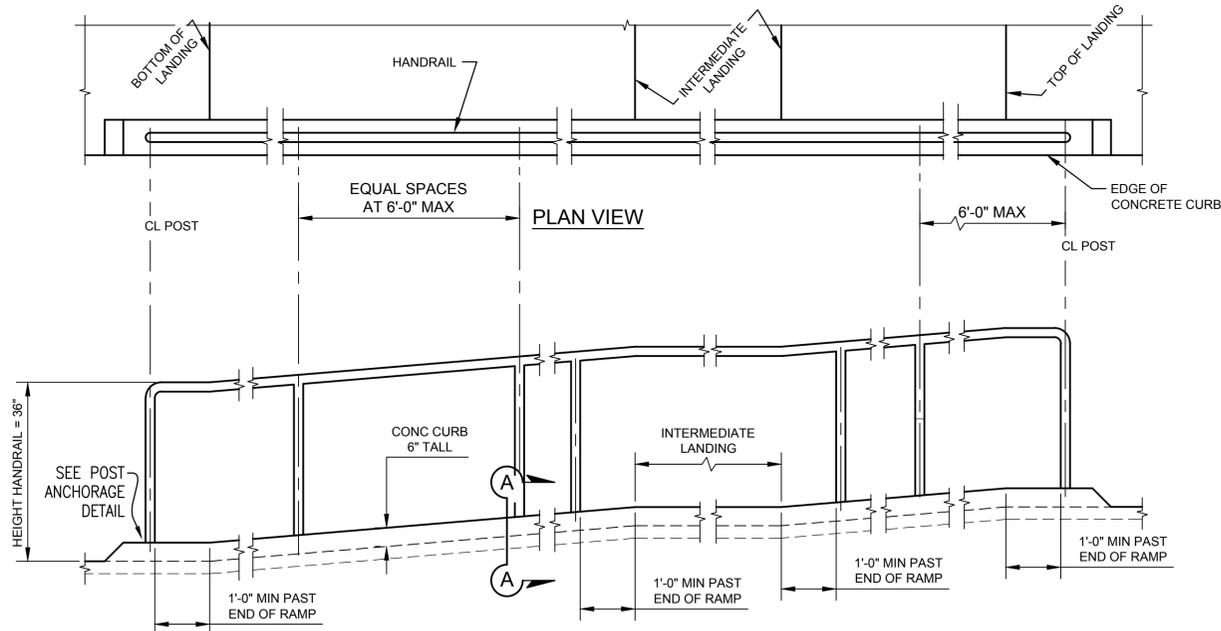


SECTION A - A
SCALE: NTS
HANDRAIL POST ANCHORAGE



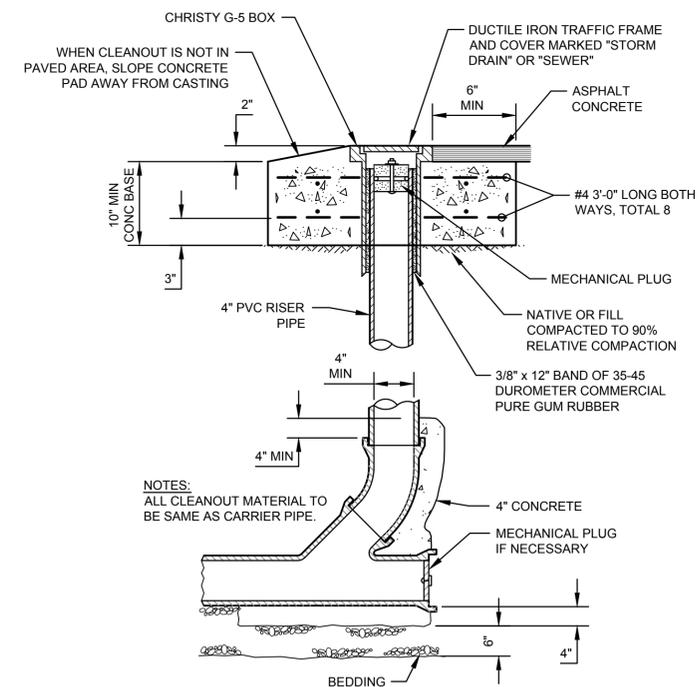
NOTES:
1. ADDITIONAL FITTINGS AND ADAPTERS MAY BE REQUIRED TO CONNECT DISSIMILAR MATERIALS. COORDINATE WORK WITH OWNER'S REPRESENTATIVE.

14
C-503
TYPICAL DOWNSPOUT CONNECTION
SCALE: NTS



- NOTES:
- HANDRAILS SHALL BE 1 1/2" DIAMETER GALVANIZED STEEL.
 - HEIGHT OF RAILINGS TO BE 34" MIN., 38" MAX.
 - PROVIDE PROTECTION FOR DISSIMILAR METALS AND CONCRETE.
 - CONCRETE COLOR & FINISH OF RAMP TO MATCH ADJACENT CONCRETE PAVING.
 - PROVIDE NON-SLIP FINISH ON RAMP SURFACE PER THE 2013 CBC.
 - SEE GRADING PLAN FOR FINISH SURFACE GRADES.
 - SUBMIT SHOP DRAWINGS OF HANDRAILS FOR APPROVAL PRIOR TO FABRICATION AND INSTALLATION.
 - RAMP SHALL HAVE EXPANSION JOINTS PER DETAIL C-502.
 - RAMPS SHALL HAVE SCORE MARKS PER DETAIL C-504.
 - RAMPS SHALL COMPLY WITH THE 2013 CBC.

13
C-503
TYPICAL RAMP SECTION & HANDRAIL DETAILS
SCALE: NTS



NOTES:
ALL CLEANOUT MATERIAL TO BE SAME AS CARRIER PIPE.

15
C-503
TYPICAL STORM DRAIN CLEANOUT DETAIL
SCALE: NTS

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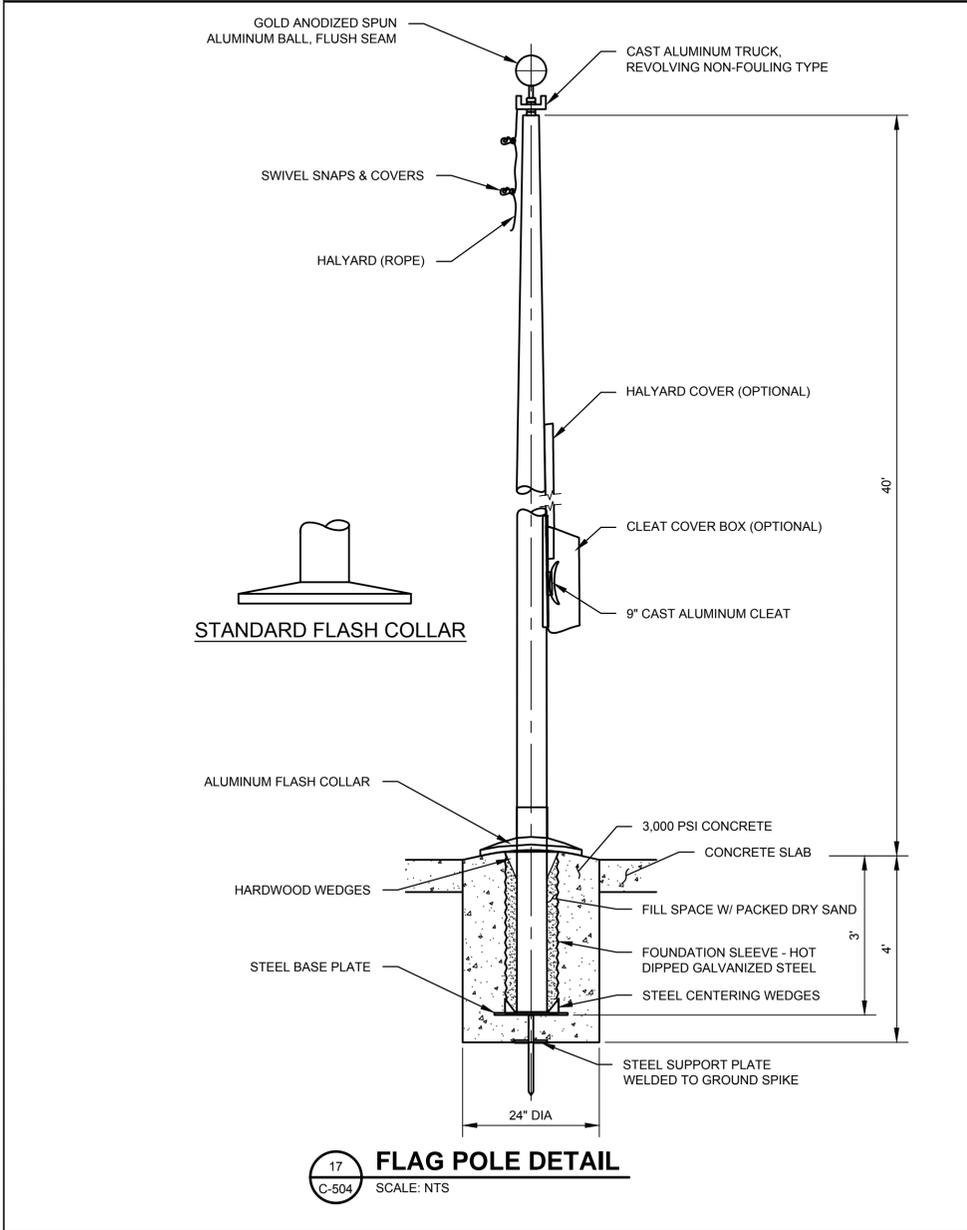
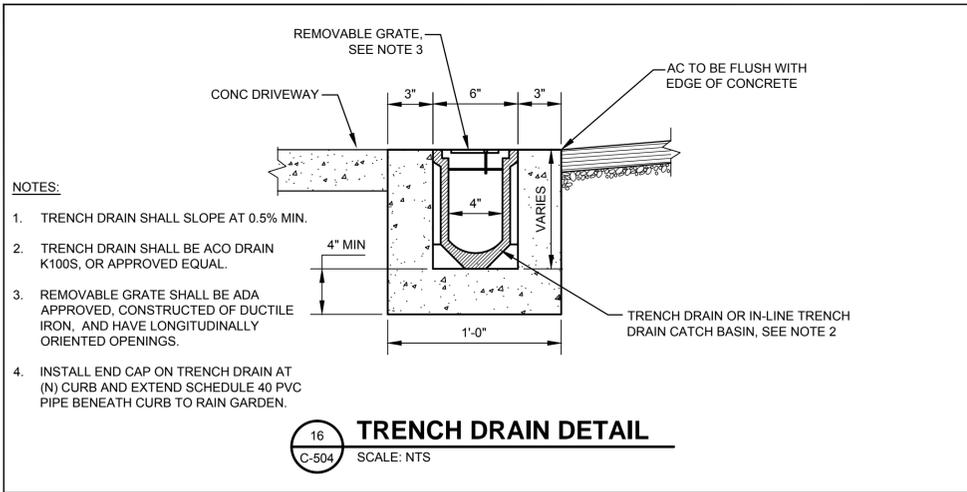
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Project	FORTUNA CITY HALL PARKING LOT ACCESSIBILITY & STORMWATER PROJECT		
Title	CONSTRUCTION DETAILS		
Contract No.	8410751		
Original Size	Ansi D Drawing No: C-503		
Sheet	9	of	13
Rev:	0		



NOTES:

- CURB RAMPS SHALL BE OUTLINED, AS SHOWN ON THE RAMP DETAILS, WITH A 1'-0" WIDE BORDER WITH 1/4" GROOVES APPROXIMATELY 3/4" ON CENTER.
- CURB RAMPS SHALL HAVE A DETECTABLE WARNING SURFACE THAT EXTENDS THE FULL WIDTH AND 3'-0" DEPTH OF RAMP.
- THE EDGE OF THE DETECTABLE WARNING SHALL BETWEEN 6" AND 8" AWAY FROM THE STREET GUTTER FLOWLINE.
- DETECTABLE WARNING SHALL BE A PREFORMED MATERIAL AS APPROVED BY THE ENGINEER. THE USE OF CONCRETE STAMPING IS NOT PERMITTED. APPROVED DETECTABLE WARNING PRODUCTS ARE:

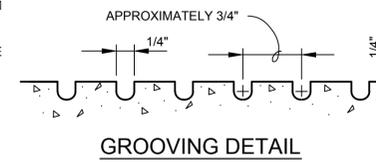
NEW RAMPS

ARMORTILE CAST-IN-PLACE SYSTEM - BY ENGINEERED PLASTICS INC.,
300 INTERNATIONAL DRIVE,
SUITE 100, WILLIAMSVILLE, NY 14421
OR APPROVED EQUAL.

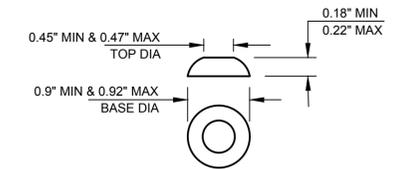
EXISTING RAMPS

ARMORTILE SURFACE-APPLIED SYSTEM - BY ENGINEERED PLASTICS INC.,
300 INTERNATIONAL DRIVE, SUITE 100,
WILLIAMSVILLE, NY 14421
OR APPROVED EQUAL.

- DETECTABLE WARNING SURFACE SHALL BE FEDERAL YELLOW.



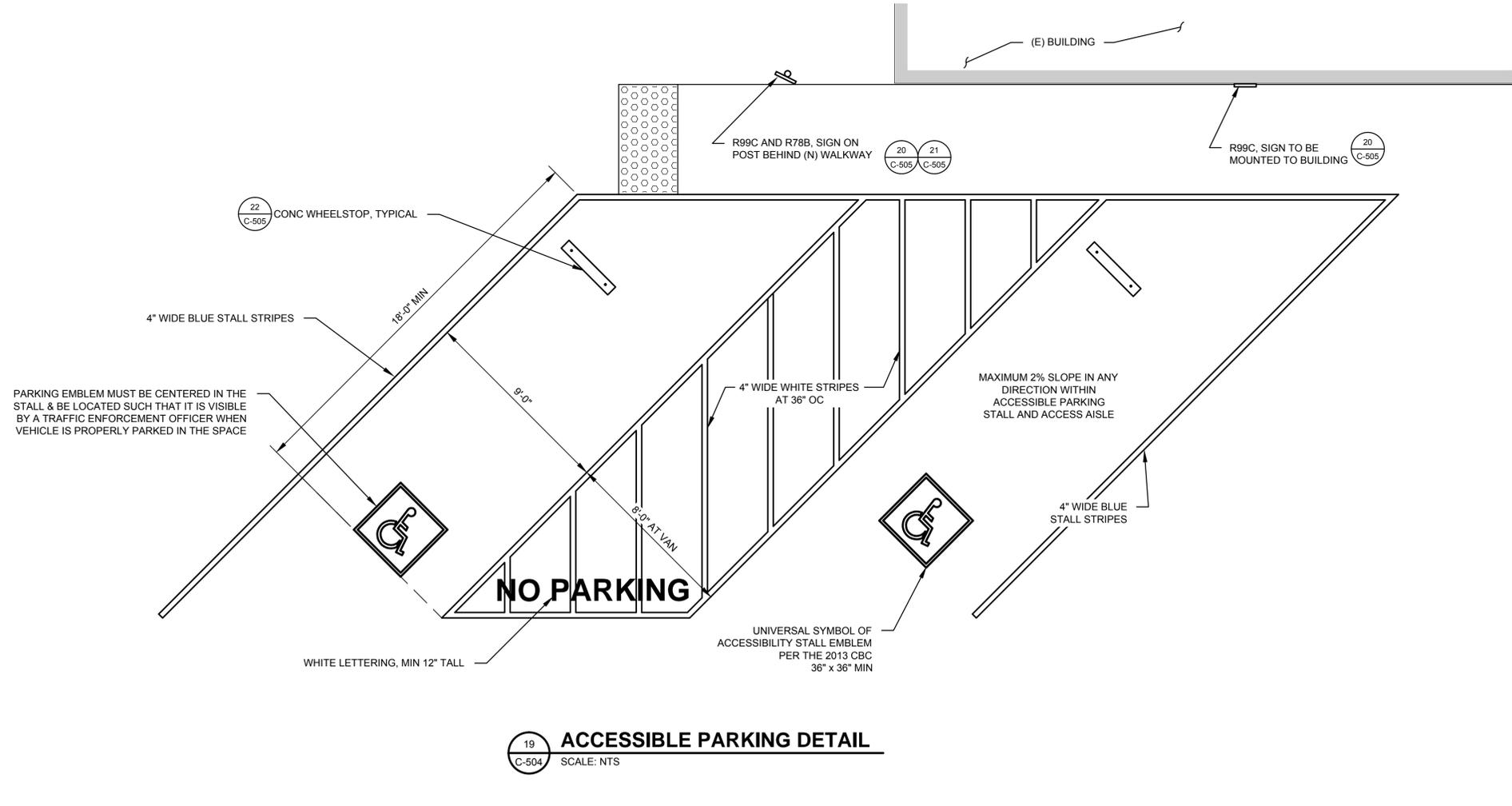
RAISED TRUNCATED DOME PATTERN (IN-LINE)



RAISED TRUNCATED DOME

DETECTABLE WARNING SURFACE

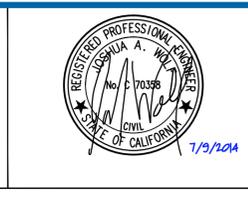
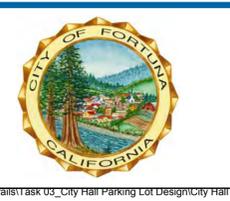
18 TYPICAL DETECTABLE WARNING SURFACE & GROOVING DETAILS
SCALE: NTS



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-						

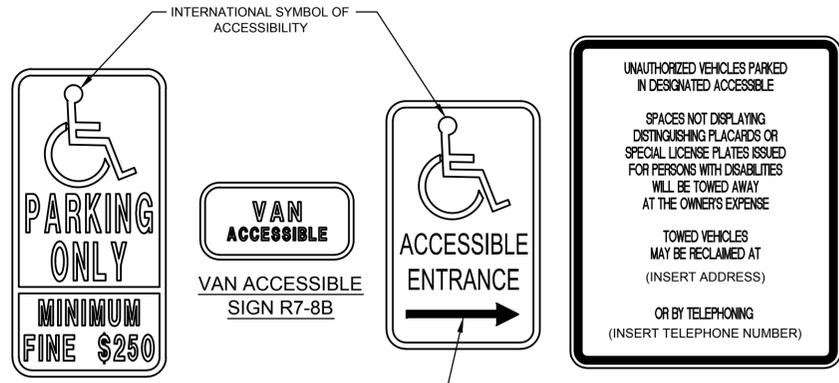
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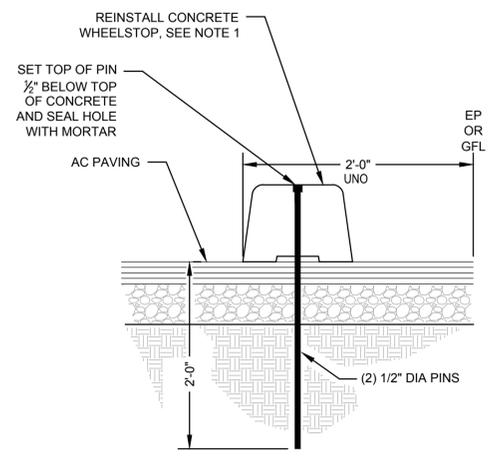
Client	CITY OF FORTUNA
Project	FORTUNA CITY HALL PARKING LOT ACCESSIBILITY & STORMWATER PROJECT
Title	CONSTRUCTION DETAILS
Contract No.	8410751
Original Size	10 of 13
ANSI D	Drawing No: C-504
Rev:	0



ACCESSIBLE PARKING SIGN R99C (CA)
ACCESSIBLE ENTRANCE SIGN R100B (CA)

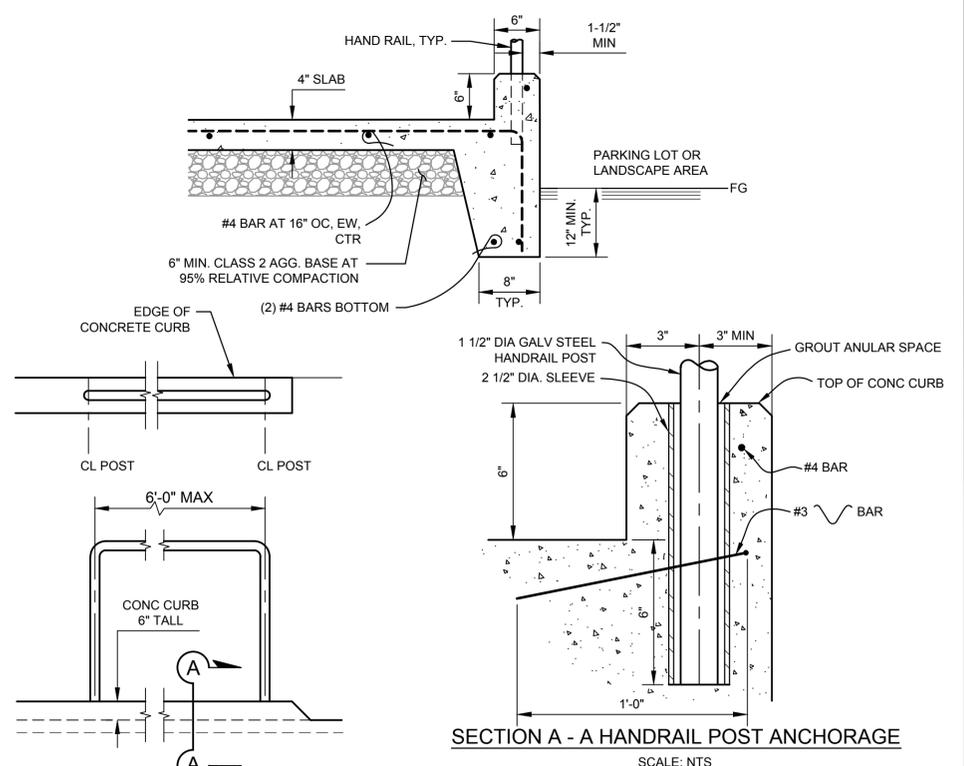
- NOTES:**
- ACCESSIBLE PARKING SIGNS SHALL CONFORM TO THE REQUIREMENTS OF THE 2013 CBC AND THE DETAILS SHOWN ON THIS DRAWING.
 - THE BOTTOM OF THE SIGN OR PLAQUE PANEL SHALL BE A MINIMUM OF 7'-0" ABOVE THE SURROUNDING SURFACE.
 - SIGN PANELS SHALL BE REFLECTORIZED, 16 GA MIN GALV STL WITH PORCELAIN ENAMEL FINISH AND WHITE LETTERS/SYMBOLS ON A BLUE BACKGROUND. THE BLUE COLOR SHALL BE EQUAL TO COLOR NO. 15090 IN FEDERAL STANDARD 595A.
 - WHERE INDICATED ON PLANS, INSTALL SIGNS ON POST PER
 - ADDRESS AND TELEPHONE NUMBER FOR ACCESSIBLE SIGN R100B (CA) TO BE PROVIDED BY CITY, AND INCORPORATED INTO THE SIGN AT TIME OF FABRICATION.

20 STANDARD ACCESSIBLE PARKING SIGNS
 SCALE: NTS

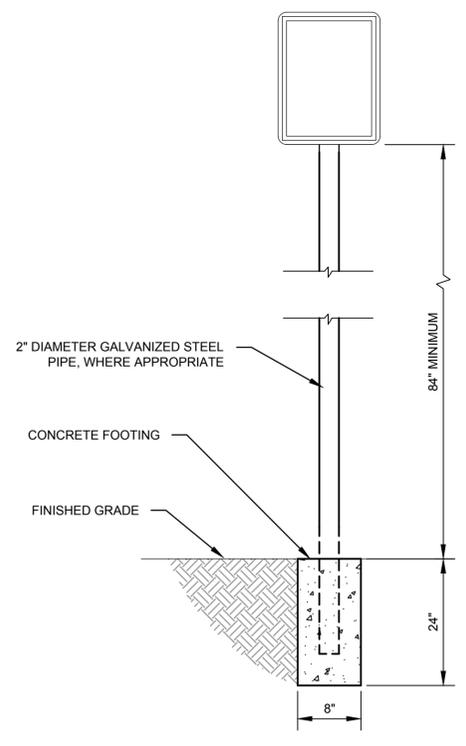


- NOTES:**
- APPLY CURB PAINT TO WHEELSTOPS. CURB STOPS SHALL BE PAINTED BLUE AT ACCESSIBLE PARKING STALLS, AND WHITE AT ALL OTHER PARKING STALLS.

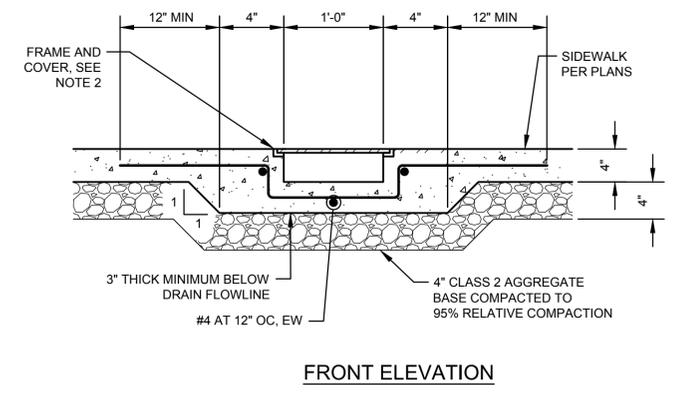
22 TYPICAL CONCRETE WHEELSTOP
 SCALE: NTS



24 TYPICAL HANDRAIL DETAIL
 SCALE: NTS

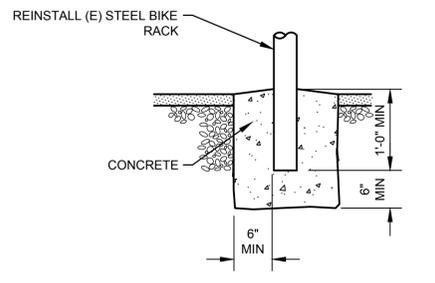


21 SIGN POST MOUNTING DETAIL
 SCALE: NTS



- NOTES:**
- DRAIN TO SLOPE A MINIMUM OF 2% TOWARDS EXISTING GUTTER.
 - FRAME AND COVER SHALL BE NEENAH R-4990, TYPE D, SOLID TOP WITH PERMA-GRIP SURFACE, OR APPROVED EQUAL.

23 TYPICAL SIDEWALK UNDERDRAIN
 SCALE: NTS



25 BIKE RACK INSTALLATION DETAIL
 SCALE: NTS

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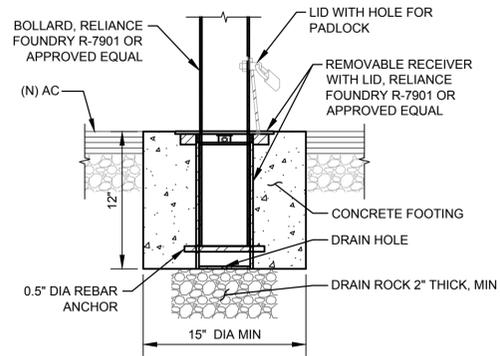
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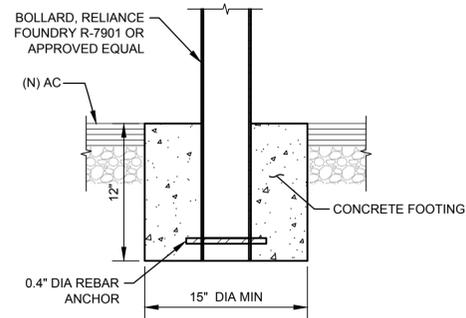


Drawn	COF/SJD	Designer	TD
Drafting Check	JW	Design Check	JW
Approved (Project Director)	MP	Date	1/9/2014
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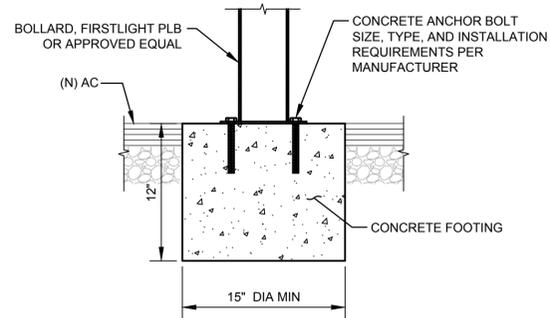
Client	CITY OF FORTUNA
Project	FORTUNA CITY HALL PARKING LOT ACCESSIBILITY & STORMWATER PROJECT
Title	CONSTRUCTION DETAILS
Contract No.	8410751
Original Size	11 of 13
ANSI D	Drawing No: C-505
Rev:	0



REMOVABLE BOLLARD WITH LID



FIXED/ EMBEDDED BOLLARD



SURFACE MOUNT BOLLARD

- NOTES:**
- BOLLARDS SHALL BE FACTORY COATED, COLOR BLACK.
 - BOLLARDS SHALL INCLUDE CITY LOGO AND/OR OTHER CUSTOM DECORATIVE WORK, COORDINATE WITH CITY FOR ADDITIONAL INFORMATION.



BOLLARD INSTALLATION DETAILS

SCALE: NTS

No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director	Date
-						

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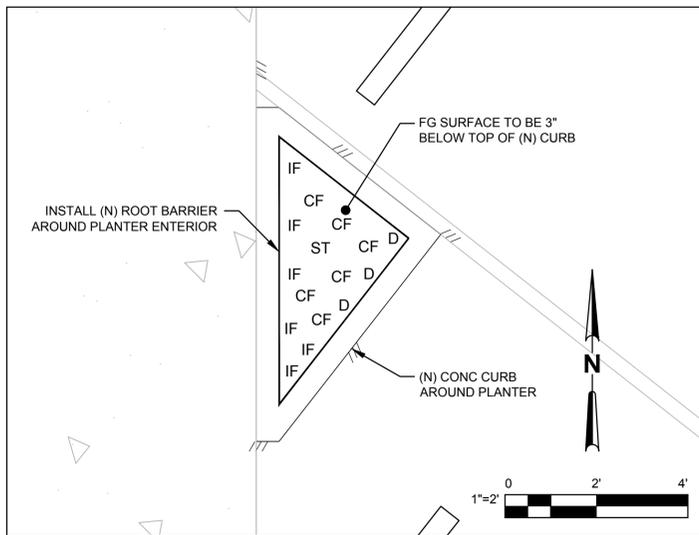


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Client	CITY OF FORTUNA
Project	FORTUNA CITY HALL PARKING LOT ACCESSIBILITY & STORMWATER PROJECT
Title	CONSTRUCTION DETAILS
Contract No.	8410751
Original Size	Sheet 12 of 13
Ansi D	Drawing No: C-506 Rev: 0

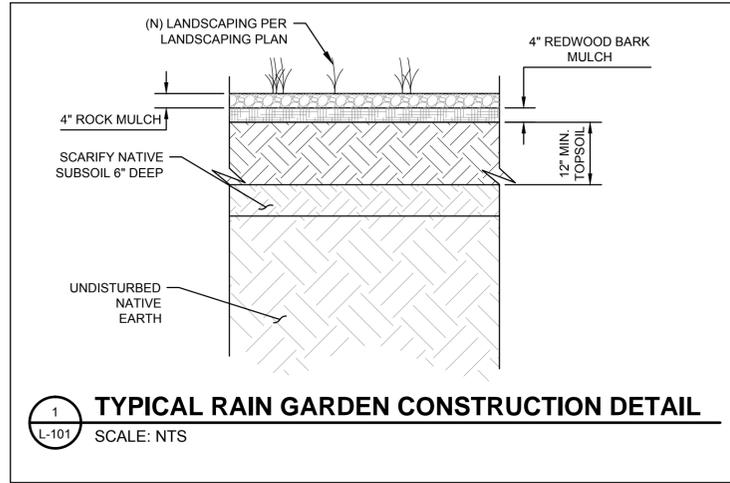
LEGEND	SHEET GENERAL NOTES
 ROCK ENTRY/ROCK ARMOR - 12" THICK OVER FILTER FABRIC	1. ALL PLANTED AREAS SHALL BE MULCHED WITH A LAYER OF 4" THICK ROCK MULCH OVER 4" THICK LAYER OF REDWOOD BARK MULCH EVERYWHERE EXCEPT UNPLANTED ROCK ENTRY/ROCK ARMOR AREAS. REFER TO SPECIFICATIONS. 2. PLANT INSTALLATION SHALL BE IN RANDOM PATTERN TO AVOID CHANNELIZATION.



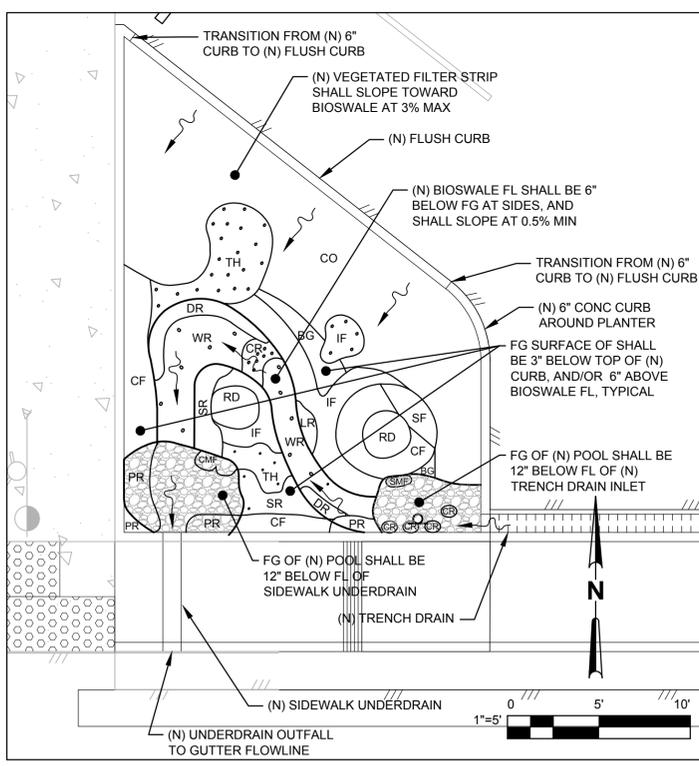
TYPICAL LANDSCAPE BOX
SCALE: 1" = 2'

Latin Name	Common Name	Map Cod	# of Plants	Minimum Spacing	Plant Size	Location
<i>Erigeron glaucus</i>	Seaside Daisy	D	12	6"	1 gal	Upland
<i>Festuca californica</i>	California Fescue	CF	24	18"	1 gal	S. of Tree
<i>Festuca idahoensis</i>	Idaho Fescue	IF	24	12"	1 gal	South
<i>Arbutus Undedo</i>	Strawberry Tree	ST	4	NA	15 gal	Center
Subtotal			56			

Note: Divide numbers per specie by four to get number per planter.

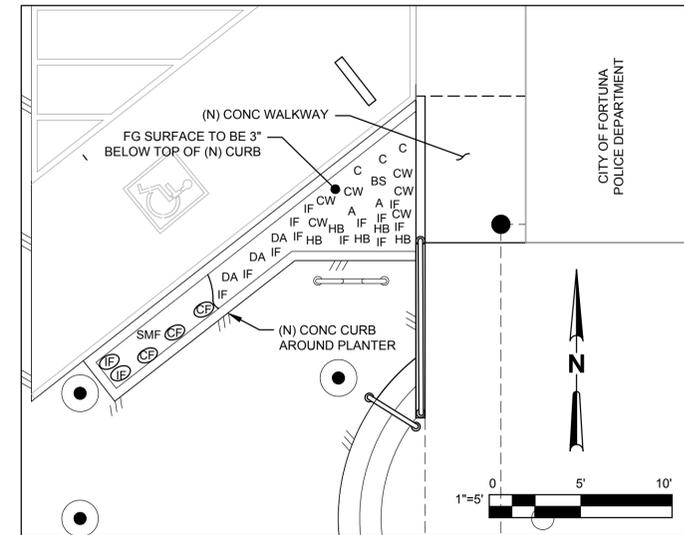


TYPICAL RAIN GARDEN CONSTRUCTION DETAIL
SCALE: NTS



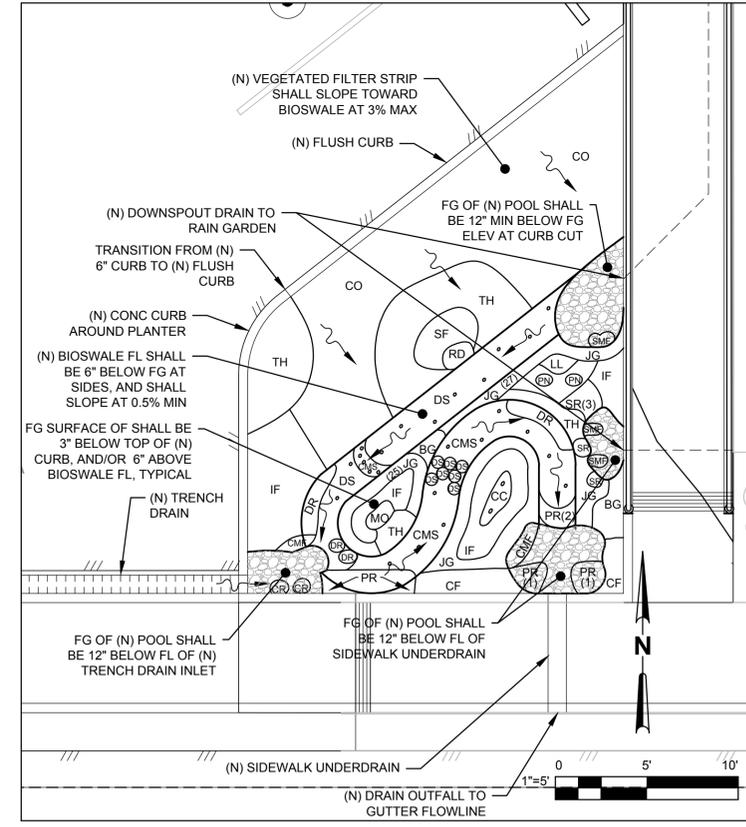
SOUTHWEST RAIN GARDEN
SCALE: 1" = 5'

Latin Name	Common Name	Map Code	# of * Plants	Minimum Spacing*	Plant Size	Location
<i>Calamagrostis foliosa</i>	Leafy Reed Grass	LR	3	8"	Any	Chnl Edge
<i>Calamagrostis nutkaensis</i>	Pacific Reedgrass	PR	7	18"	1 gal	Pool/Chnl
<i>Carex obruata</i>	Slough Sedge	CO	156	12"	4"	N. Upland
<i>Cornus sericea</i>	Red-Osier Dogwood	RD	2	NA	5 gal	Upland
<i>Deschampsia caespitosa</i>	Tufted Hairgrass	TH	14	18"	1 gal	Upland
<i>Festuca californica</i>	California Fescue	CF	30	18"	1 gal	Upland
<i>Festuca idahoensis</i>	Idaho Fescue	IF	27	12"	1 gal	Upland
<i>Juncus effusus</i>	Common Rush	CR	11	NA	1 gal	Pool
<i>Juncus ensifolius</i>	Dagger-leaved Rush	DR	10	12"	1 gal	Channel
<i>Juncus occidentalis</i>	Western Rush	WR	12	14"	Any	Channel
<i>Juncus patens</i>	Spreading Rush	SR	15	NA	1 gal	Any
<i>Mimulus cardinalis</i>	Cardinal Monkeyflower	CMF	2	12"	Any	Pool
<i>Mimulus guttatus</i>	Seep Monkeyflower	SMF	1	NA	Any	Pool
<i>Polystichum munitum</i>	Sword Fern	SF	2	12"	1 gal	N. Upland
<i>Sisyrinchium bellum</i>	Blue-eyed Grass	BG	15	6"	4"	Upland
Subtotal			307			



ENTRYWAY PLANTER
SCALE: 1" = 5'

Latin Name	Common Name	Map Code	# of Plants	Minimum Spacing	Plant Size	Notes
<i>Aronia melanocarpa</i>	Aronia "Nero & Dwarf Aronia"	A	2	18"	Any	
<i>Festuca californica</i>	California Fescue	CF	3	18"	1 gal	
<i>Festuca idahoensis</i>	Idaho Fescue	IF	14	12"	1 gal	
<i>Lonicera caerulea</i>	Honeyberry (1 ea.)	HB	1	18"	Any	
	Blue Mist	"	1		Any	
	Blue Moon	"	1		Any	
	Blue Forest	"	1		Any	
	Blue Sea	"	1		Any	
	Blue Pacific	"	1		Any	
<i>Mimulus aurantiacus</i>	Sticky Monkeyflower	SMF	4		1 gal	
<i>Pemetyta mucronata</i>	Chilean Wintergreen	CW	3	18"	Any	Pink Snowdrop'
<i>Pemetyta mucronata</i>	Chilean Wintergreen	CW	3	18"	Any	Snowdrop'
<i>Vaccinium</i>	Chernika	C	3	18"	Any	
<i>X Sorbopyrus auricularis</i>	Baby Shipova	BS	1	NA	Any	
Subtotal			41			



SOUTHEAST RAIN GARDEN
SCALE: 1" = 5'

Latin Name	Common Name	Map Code	# of * Plants	Minimum Spacing*	Plant Size	Location
<i>Calamagrostis nutkaensis</i>	Pacific Reedgrass	PR	8	18"	1 gal	Pool/Chnl
<i>Carex obruata</i>	Slough Sedge	CO	152	12"	4"	N. Upland
<i>Carex pansa</i>	CA Meadow Sedge	CMS	15	24"	Liner	Channel
<i>Carex praegracilis</i>	Deer Sedge	DS	27	24"	Any	Channel
<i>Cornus sericea</i>	Red-Osier Dogwood	RD	1	NA	5 gal	Upland
<i>Deschampsia caespitosa</i>	Tufted Hairgrass	TH	34	18"	1 gal	Upland
<i>Festuca californica</i>	California Fescue	CF	8	18"	1 gal	Upland
<i>Festuca idahoensis</i>	Idaho Fescue	IF	43	12"	1 gal	Upland
<i>Sisyrinchium bellum</i>	Blue-eyed Grass	BG	25	6"	4"	Upland
<i>Juncus effusus</i>	Common Rush	CR	2	NA	1 gal	Pool
<i>Juncus ensifolius</i>	Dagger-leaved Rush	DR	9	12"	1 gal	Channel
<i>Juncus patens</i>	Spreading Rush	SR	5	NA	1 gal	Any
<i>Koeleria macrantha</i>	Junegrass*	JG	106	5"	liner	Any
<i>Lilium pardalinum</i>	Leopard Lily	LL	14	5"	4"	Upland
<i>Mimulus cardinalis</i>	Cardinal Monkeyflower	CMF	4	12"	Any	Pool/Chnl
<i>Mimulus guttatus</i>	Seep Monkeyflower	SMF	4	NA	Any	Pool
<i>Philadelphus lewisii</i>	Mock Orange	MO	1	NA	5 gal	Upland
<i>Physocarpus capitatus</i>	Pacific Ninebark	PN	2	22"	5 gal	Upland
<i>Polystichum munitum</i>	Sword Fern	SF	2	12"	1 gal	N. Upland
<i>Prunus virginiana</i>	Western Chokecherry	CC	2	NA	1 gal	Upland
<i>Sisyrinchium bellum</i>	Blue-eyed Grass	BG	25	6"	4"	Upland
Subtotal			464			

*Size substitutions acceptable, at appropriate compensation ratio, if contractor demonstrates specified size not available.

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