AGENDA SECTION: CONSENT AGENDA
AGENDA ITEM # 11
REPORT # 12-12

STAFF REPORT
COUNCIL MEETING DATE:
January 23, 2012

ITEMS FOR COUNCIL CONSIDERATION:

Authorize the Director of Public Works to Advertise City Maintenance Project No. 15027, Linden Avenue Concrete Repair, for Informal Bid

Report prepared by: Dylan Paul, Management Analyst
Department: Public Works

Signature

Reviewed by Public Works Director:

Signature

Reviewed by City Manager:

Signature

ACTION X NON-ACTION ___ **STAFF RECOMMENDATION:**

Recommendation: That your Council receive this staff report and verbal update, and authorize the Public Works Director to advertise City Maintenance Project 15027 (Linden Avenue Concrete Repair) for informal bid.

Sample Motion: I move to authorize the Public Works Director to advertise City Maintenance Project 15027 (Linden Avenue Concrete Repair) for informal bid.

I. BACKGROUND:

In November of 2010 after hearing testimony from Downtown business owners, the Tree Advisory Board, the Architectural Review Board, and City Staff, your Council directed staff to prepare bid documents for the replacement of street trees, curb, gutter and sidewalk at four Linden Avenue locations. These 4 locations, as shown in the draft construction plans provided in Attachment A, are located in sensitive, high profile locations in the downtown corridor. As

in Attachment A, are located in sensitive, high profile locations in the downtown corridor. As such, timing, aesthetic consistency, and pedestrian safety were placed at the forefront of the project planning. The identified sidewalk, curb, and gutter locations are currently cracked and lifted due to the root structures of adjacent street trees and present potential risk for pedestrian travel, specifically with respect to the American Disability Act requirements (ADA).

On June 6, 2011, The Department of Public Works contracted with Penfield & Smith Engineers for project specific plans and specifications. These draft plans are provided in Attachment A of this staff report.

II. DISCUSSION:

The Department of Public Works has reviewed the attached plans and specifications as prepared by Penfield & Smith. If directed, staff will let this project to Informal Bid as required by the California Uniform Construction Cost Accounting Act (CUCCAA).

The project scope will includes replacement of six trees and approximately 200 lineal feet of curb, gutter, and sidewalk within the Downtown. Additionally, all tree wells within the project area will receive upgraded electrical outlets for holiday lighting and special events.

Project bidding requirements will include a mandatory pre-bid walk to educate potential contractors about specific project requirements addressing quality, timeliness, and working conditions. As required by the CUCCAA, this project will be let to informal bid and awarded to the lowest responsive responsible bidder.

During the entire construction phase of this project, local businesses will have the option to remain open with access provided for their customers. The selected contractor will coordinate all construction activities with effected businesses and City departments, to reduce any potential negative impacts from their work activities. The total number of working days anticipated for this project is 40 days.

II. POLICY:

The procedure for addressing Special Condition Streets is outlined in the Street Tree Management Plan. This process reflects both the need to take care of our street trees, and remedy the damage caused by them, while observing the value of these trees as part of the City's urban forest.

III. FINANCIAL CONSIDERATIONS:

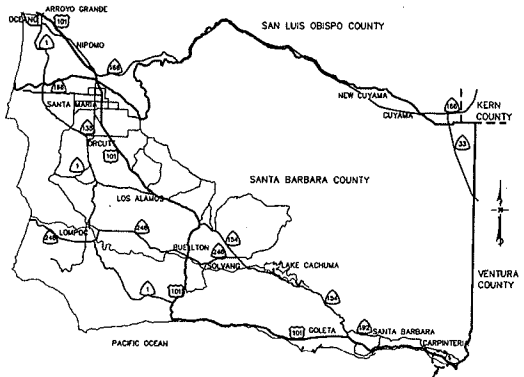
Currently, the engineer's estimate for total construction is $98,000 for the proposed work schedule. This project would be funded through Measure D.

IV. ATTACHMENTS:

1. Reduced copy of project plans

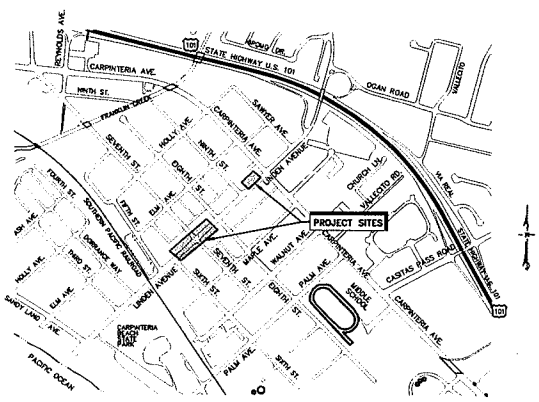
ATTACHMENT A

LINDEN AVENUE
CONCRETE REPAIR PROJECT
CARPINTERIA, CALIFORNIA



VICINITY MAP
N.T.S.

PROJECT LOCATION



LOCATION MAP
N.T.S.

Know what's below. Call before you dig.

SHEET INDEX

SHEET NO.	DESCRIPTION
1.	TITLE SHEET
2.	DEMOLITION AND IMPROVEMENT PLAN (929 & 700 LINDEN AVE)
3.	DEMOLITION AND IMPROVEMENT PLAN (619 & 657 LINDEN AVE)
4.	CONSTRUCTION DETAILS
E1.	ELECTRICAL SYMBOLS, SPECS AND 1-LINE DIAGRAM
E2.	ELECTRICAL PLAN AND DETAILS

LEGEND

- EXISTING EDGE OF BUILDING
- EXISTING GAS LINE
- EXISTING FENCELINE
- EDGE OF PAVEMENT
- SAWCUT LINE/LIMIT OF DEMOLITION
- MANHOLE
- TRASH RECEPTACLE
- PEDESTRIAN BENCH
- EXISTING TREE SERVICE ELECTRICAL
- PULLBOX/METER BOX
- EXISTING VALVE
- EXISTING STREETLIGHT
- PROPOSED TREE WELL
- CONCRETE TO BE REMOVED
- EXISTING CONCRETE
- PROPOSED CONCRETE
- EXISTING AC PAVEMENT
- PROPOSED AC PAVEMENT
- CONSTRUCTION NOTE
- DEMOLITION NOTE

GENERAL NOTES

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH:
   - A. THESE PLANS,
   - B. THE PROJECT SPECIFICATIONS,
   - C. THE COUNTY OF SANTA BARBARA STANDARD PLANS,
   - D. THE 2010 EDITION OF THE CALIFORNIA BUILDING CODE,
   - E. THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, (GREEN BOOK), 2009 EDITION, PUBLISHED BY BUILDING NEWS, INC., LOS ANGELES,
   - F. PROJECT PERMITS AND CONDITIONS OF APPROVAL,
   - G. THE REQUIREMENTS OF THE STATE OF CALIFORNIA DIVISION OF INDUSTRIAL SAFETY.
2. WORK DONE IN CONFLICT WITH THESE PLANS AND OTHER REQUIREMENTS LISTED ABOVE WILL BE SUBJECT TO REJECTION.
3. CONSTRUCTION ACTIVITIES SHALL BE LIMITED TO THE HOURS BETWEEN 7 A.M. AND 5:00 P.M., MONDAY THROUGH FRIDAY. NO WORK SHALL BE PERFORMED AT 929 LINDEN AVENUE ON THURSDAYS DUE TO ACTIVITIES RELATED TO FARMERS MARKET.
4. CONTRACTOR SHALL NOTIFY TENANTS DIRECTLY IMPACTED BY THE WORK A MINIMUM 7 DAYS PRIOR TO THE WORK AND ACCESS TO BUSINESSES SHALL BE MAINTAINED DURING NORMAL BUSINESS HOURS.
5. CONTRACTOR SHALL MAINTAIN TRAFFIC ALONG LINDEN AVENUE IN BOTH DIRECTIONS. THERE SHALL BE NO LANE CLOSURES ON LINDEN AVENUE OR CROSS STREETS.
6. CONTRACTOR SHALL POSSESS A VALID CLASS A GENERAL ENGINEERING CONTRACTOR'S LICENSE AND SHALL FURNISH EVIDENCE OF THE SAME AT THE TIME THE CONTRACT IS AWARDED.
7. CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT TWO (2) WORKING DAYS IN ADVANCE OF COMMENCING CONSTRUCTION BY CALLING 1-800-422-4133.
8. UNDERGROUND UTILITIES AND SUBSTRUCTURES AS SHOWN HEREON WERE OBTAINED FROM AVAILABLE SOURCES, THE ACCURACY OR COMPLETENESS OF WHICH HAS NOT BEEN DETERMINED. CONTRACTOR SHALL VERIFY DEPTH AND LOCATION OF ALL EXISTING UTILITIES AND SUBSTRUCTURES PRIOR TO CONSTRUCTION, AND SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES DURING CONSTRUCTION.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ADEQUATE BRACING AND SHORING FOR EXCAVATIONS, TEMPORARY STRUCTURES, AND ANY AND ALL PARTIALLY COMPLETED PORTIONS OF THE WORK. SHEETING, SHORING, BRACING OR EQUIVALENT PROTECTION FOR ALL EXCAVATIONS SHALL BE PROVIDED AS REQUIRED BY INDUSTRIAL SAFETY LAWS.
10. CONSTRUCTION EQUIPMENT AND MATERIALS ON SITE SHALL BE USED IN SUCH A MANNER AS TO AVOID CREATING A PUBLIC NUISANCE.
11. DISTURBED AREAS SHALL BE SURFACED OR WETTED SUFFICIENTLY TO PREVENT THE GENERATION OF EXCESSIVE DUST AT ALL TIMES. ALL WASTE MATERIAL SHALL BE DISPOSED OF OFF-SITE BY THE CONTRACTOR IN A LEGAL MANNER.
12. A CURRENT SIGNED AND STAMPED SET OF PLANS AND SPECIFICATIONS FOR THIS PROJECT SHALL BE AVAILABLE ON THE JOB SITE AT ALL TIMES.
13. CONTRACTOR SHALL MAINTAIN A REDLINED SET OF AS-BUILT DRAWINGS AS THE WORK PROGRESSES, KEEPING TRACK OF ANY CHANGES OR IMPROVEMENTS THAT DEVIATE FROM THE CONTRACT DOCUMENTS. THESE SHALL BE DELIVERED TO THE PROJECT ENGINEER AT THE CONCLUSION OF CONSTRUCTION.
14. CONCRETE FOR SITE WORK IMPROVEMENTS SHALL BE 650-CW-4000P WITH 25% CLASS F FLYASH (BY WEIGHT) CONFORMING TO ASTM C618.

AIR AND WATER POLLUTION CONTROL NOTES

1. THE CONTRACTOR SHALL DESIGNATE A PERSON OR PERSONS TO MONITOR THE DUST CONTROL PROGRAM AND TO ORDER INCREASED WATERING, AS NECESSARY, TO PREVENT TRANSPORT OF DUST OFF SITE. THEIR DUTIES SHALL INCLUDE HOLIDAY AND WEEKEND PERIODS WHEN WORK MAY NOT BE IN PROGRESS.
2. THE CONTRACTOR SHALL PREVENT THE PROJECT FROM CAUSING POLLUTION BY ADDING STANDARD BMP'S TO FILTER RUNOFF AND PREVENT SILT LADEN WATER FROM LEAVING THE PROJECT SITE OR ENTER THE STORM DRAIN SYSTEM.
3. RUNOFF FROM THE SITE SHALL BE FREE OF POLLUTION.
4. TO THE EXTENT FEASIBLE, EQUIPMENT SHALL NOT BE SERVICED OR REFUELED ONSITE.
5. THE PROTECTION MEASURES MAY BE TEMPORARILY MOVED OUT OF THE CONTRACTOR'S WAY TO FACILITATE CONSTRUCTION, PROVIDED THEY ARE REINSTALLED PRIOR TO THE NEXT RAIN EVENT.
6. THE CONTRACTOR SHALL ADVISE WORKERS OF THE INTENT OF THE PROTECTION MEASURES PRIOR TO RAIN. WORKERS SHALL MONITOR THE EFFECTIVENESS OF THE SYSTEM AND ALERT THE CONTRACTOR OF ANY FAILURES OR PROBLEMS.
7. THE AREA SHALL BE INSPECTED FREQUENTLY TO ENSURE NO SPILLED HAZARDOUS MATERIALS CONTAMINATE THE EXISTING GROUND. SHOULD THIS OCCUR, THE AREA SHALL BE CLEANED UP IMMEDIATELY PER CITY POLICIES.
8. THE CLOSEST DOWNSTREAM STORM DRAIN INLETS SHALL BE PROTECTED FROM DEBRIS RUN-OFF FROM THE PROJECT

GENERAL GRADING NOTES

1. GRADING SUPERVISION REQUIREMENTS SHALL BE COMPLIED WITH AS FOLLOWS: THE GEOTECHNICAL ENGINEER SHALL PROVIDE GENERAL REVIEW OF THE GRADING AND SUBGRADE PREPARATION AND PERFORM COMPACTION TESTING AS NECESSARY TO ENSURE QUALITY CONSTRUCTION AND COMPLY WITH THE GRADING ORDINANCE.
2. UNDERGROUND SERVICE ALERT (U.S.A.) SHALL BE CONTACT AT 1-800-422-4133, FORTY EIGHT (48) HOURS PRIOR TO START OF ANY CONSTRUCTION ACTIVITY OR GRADING OPERATIONS.
3. NOISE GENERATING CONSTRUCTION ACTIVITIES SHALL BE LIMITED TO THE HOURS OF 7:00 AM TO 5:00 PM, MONDAY THROUGH FRIDAY. CONSTRUCTION EQUIPMENT MAINTENANCE SHALL BE LIMITED TO THE SAME HOURS. STATIONARY CONSTRUCTION EQUIPMENT THAT GENERATES NOISE WHICH EXCEEDS 65 DBA AT THE PROJECT BOUNDARIES, SHALL BE SHIELDED TO REDUCE IMPACT ON BUSINESSES AND THE PUBLIC TO THE EXTENT FEASIBLE.
4. STONES LARGER THAN 3 INCHES IN DIAMETER SHALL BE REMOVED FROM THE SUBGRADE. MATERIALS SHALL BE PLACED IN SUCH A MANNER THAT NO VOIDS IN THE SUBGRADE ARE CREATED.
5. WHEN THE MOISTURE CONTENT OF THE FILL MATERIAL IS NOT SUFFICIENT TO ACHIEVE REQUIRED COMPACTION, WATER SHALL BE ADDED UNTIL THE SOILS ATTAIN A MOISTURE CONTENT SO THAT THOROUGH BONDING IS ACHIEVED DURING THE COMPACTING PROCESS. WHEN THE MOISTURE CONTENT OF THE FILL MATERIAL IS EXCESSIVE, THE FILL MATERIAL SHALL BE AERATED UNTIL THE MOISTURE CONTENT IS REDUCED TO AN ACCEPTABLE CONTENT TO ACHIEVE PROPER COMPACTION.
6. IMPORT SOILS SHALL BE GRANULAR, NON-EXPANSIVE SOILS WITH A SAND EQUIVALENT GREATER THAN 30. IMPORT OR ON-SITE SOILS USED IN FILL OPERATIONS SHALL BE FREE FROM ORGANIC MATERIAL, ROCKS GREATER THAN 2 INCHES AND OTHER DELETERIOUS MATERIALS. DURING GRADING OPERATIONS THE GEOTECHNICAL ENGINEER SHALL PERIODICALLY EXAMINE THE SOILS FOR ORGANIC CONTENT AND REPORT THE FINDINGS IN HIS DAILY REPORT. IF ORGANIC MATERIALS ARE BEING PLACED IN THE BACKFILL THE CITY SHALL BE NOTIFIED IMMEDIATELY.
7. COMPACTION SHALL COMPLY WITH THE ASTM D1557 METHOD OF COMPACTION.
8. DURING ROOT REMOVAL SHOULD ROOTS BE ENCOUNTERED THAT TRAVEL UNDER EXISTING PAVEMENT, THE EXISTING PAVEMENT TO THE BIKE LANE STRIPE SHALL BE REMOVED AND REPLACED TO THE EXTENT REQUIRED BY THE DEPARTMENT OF PUBLIC WORKS.

NO.	DATE	REVISIONS	APPD.

Penfield & Smith
Engineering · Surveying · Planning · Construction Management
111 East Victoria Street, Santa Barbara, CA 93101
Phone: (805) 963-9532 Fax: (805) 966-9801

DESIGN NPZ CHECKED
BRET FOSTER DATE:
PROJECT ENGINEER
R.C.E. 48,267

REGISTERED PROFESSIONAL ENGINEER BRET E. FOSTER NO 48267 CIVIL STATE OF CALIFORNIA

CITY OF CARPINTERIA
REVIEWED BY:
SIGNATURE DATE

DRAFT

LINDEN AVENUE
CONCRETE REPAIR PROJECT
TITLE SHEET
CARPINTERIA, CALIFORNIA

P&S PROJECT NO. 20193.01
SHEET 1 OF 4
PLAN DATE JANUARY 13, 2012

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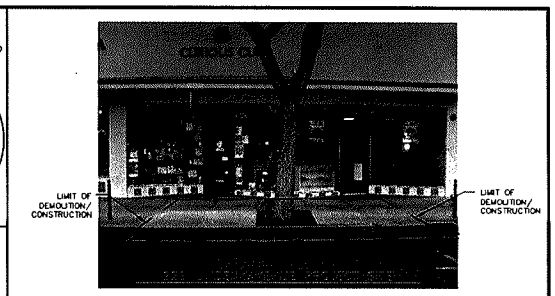
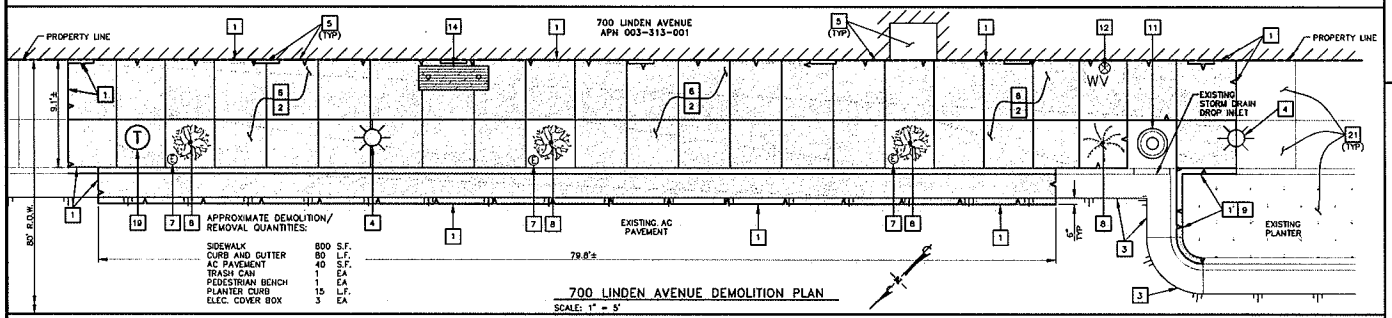
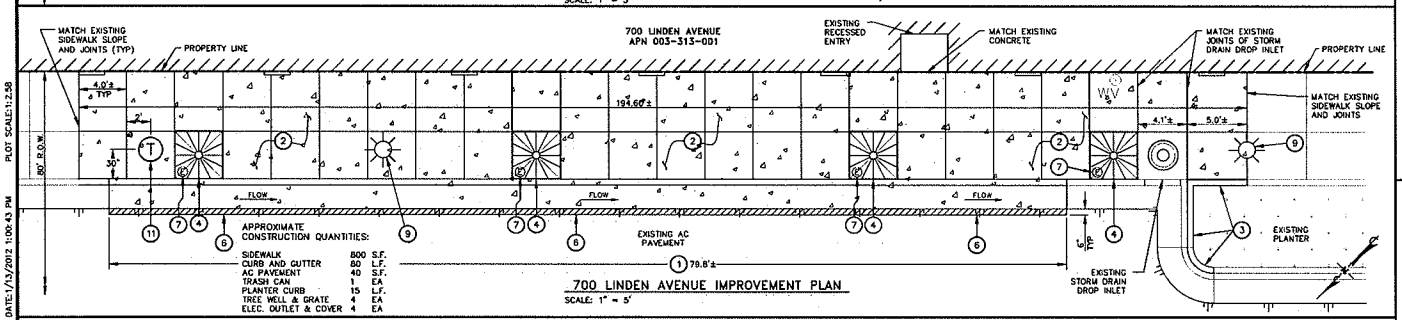
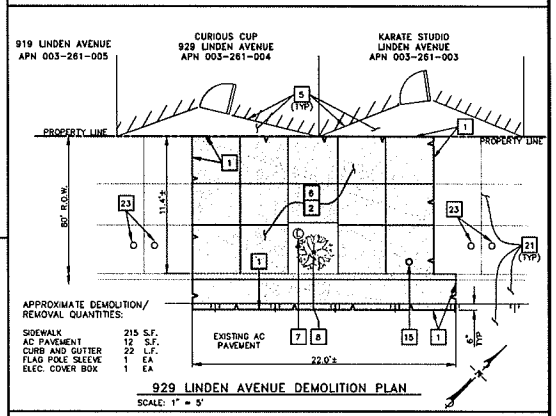




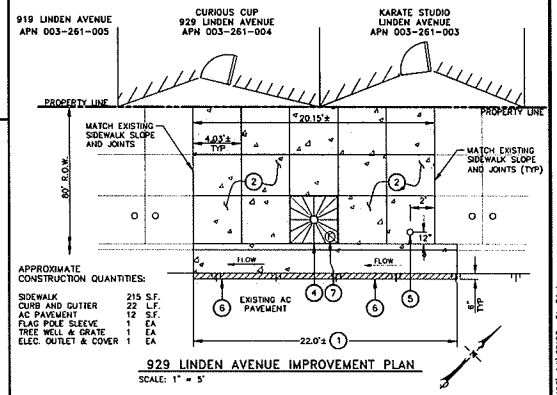
700 LINDEN AVENUE DEMOLITION PLAN
SCALE: 1" = 5'



700 LINDEN AVENUE IMPROVEMENT PLAN
SCALE: 1" = 5'



929 LINDEN AVENUE DEMOLITION PLAN
SCALE: 1" = 5'



929 LINDEN AVENUE IMPROVEMENT PLAN
SCALE: 1" = 5'

DEMOLITION/REMOVAL NOTES

1. SAWCUT CONCRETE CURB, GUTTER, AC PAVEMENT AND SIDEWALK AT IDENTIFIED JOINT LOCATIONS, BACK OF SIDEWALK, AND GUTTER LIP TO PROVIDE A CLEAN, SMOOTH JOIN LINE. DO NOT CUT, DISTURB, OR DAMAGE EXISTING IMPROVEMENTS. SEE DETAILS "A" AND "B" SHEET 4. LIMITS OF REMOVAL SHALL BE REVIEWED AND APPROVED BY THE DEPARTMENT OF PUBLIC WORKS PRIOR TO START OF CONSTRUCTION.
2. AFTER SAWCUTTING, REMOVE EXISTING CONCRETE CURB, GUTTER, AND SIDEWALK AND AC PAVEMENT AND RECYCLE MATERIALS. ANY AREA WHERE SAWCUT IS UNABLE TO EXTEND TO LIMIT OF DEMOLITION CONCRETE IS TO BE CAREFULLY CHIPPED AWAY AND REMOVED. SEE DETAILS "A" AND "B" SHEET 4.
3. PROTECT IN PLACE EXISTING INTEGRAL 6" CURB AND 24" GUTTER.
4. PROTECT EXISTING STREET LIGHT.
5. PROTECT IN PLACE PRIVATE PROPERTY INCLUDING BUILDING WALLS, CONCRETE OR TILE FLOORING, PLANTERS, ETC.
6. WITHIN THE LIMITS OF CONCRETE CURB, GUTTER, SIDEWALK, AND AC PAVEMENT REMOVAL, CONTRACTOR SHALL REMOVE ALL ROOTS 2" OR LARGER WITHIN THE TOP 18" OF SOIL AS MEASURED FROM FINISHED SUBGRADE. CARE SHALL BE TAKEN TO PROTECT EXISTING SUBSURFACE UTILITIES FROM DAMAGE.
7. SEE ELECTRICAL PLANS FOR ELECTRICAL DEMOLITION, SHEETS E1 AND E2.
8. GRIND AND REMOVE TREE ROOTS IN PLANTER AREA. ROOT REMOVAL SHALL EXTEND TO 48" BELOW SUBGRADE. CARE SHALL BE TAKEN TO PROTECT SUBSURFACE UTILITIES FROM DAMAGE.
9. REMOVE UPPER 6" CONCRETE CURB FROM PLANTER AT IDENTIFIED JOINT LOCATIONS. PROTECT INTEGRAL CONCRETE CURB AND GUTTER IN PLACE.
11. PROTECT IN PLACE STORM DRAIN MANHOLE AND DROP INLET.
12. PROTECT IN PLACE WATER VALVE.
14. CAREFULLY REMOVE AND SALVAGE PEDESTRIAN BENCH AND SUPPORT POSTS. DELIVER BENCH AND SUPPORT POSTS TO CARPINTERIA PUBLIC WORKS DEPARTMENT MAINTENANCE YARD.
15. REMOVE AND SALVAGE FLAG POLE SLEEVE.
19. CAREFULLY REMOVE AND SALVAGE TRASH CAN. STORE TRASH CAN IN CONTRACTORS YARD UNTIL READY TO REINSTALL.
21. PROTECT EXISTING IMPROVEMENTS IN PLACE.
23. PROTECT EXISTING BIKE POSTS IN PLACE.

811 Know what's below. Call before you dig.

CONSTRUCTION NOTES

1. CONSTRUCT CURB APPROXIMATELY 6½" HIGH AND 24" WIDE GUTTER IN ACCORDANCE WITH SANTA BARBARA COUNTY DEPARTMENT OF PUBLIC WORKS STANDARD DETAILS 3-100 SB-24 CURB AND 3-110, REVISED THAT ALL CONCRETE SHALL BE 650-CW-4000P PER GREENBOOK. MATCH GRADE AT JOIN LOCATIONS AND STRAIGHT GRADE BETWEEN JOIN POINTS BEING CAREFUL TO MAINTAIN POSITIVE SLOPE FOR ENTIRE LENGTH WITH FLOW IN THE DIRECTION AS SHOWN ON PLAN. MINIMUM SLOPE 0.50%. SEE TYPICAL SECTION "D" SHEET 4.
2. CONSTRUCT MINIMUM 4" THICK SIDEWALK IN ACCORDANCE WITH SANTA BARBARA COUNTY DEPARTMENT OF PUBLIC WORKS STANDARD DETAILS 4-040 AND 3-110, REVISED THAT ALL CONCRETE SHALL BE 650-CW-4000P PER GREENBOOK. SIDEWALK JOINTS SHALL BE EVENLY SPACED FOR THE ENTIRE SPAN OF CONSTRUCTION IN THE DIRECTION OF TRAVEL ALONG LINDEN AVENUE. MATCH GRADE AT JOIN POINTS AND STRAIGHT GRADE FROM BACK OF CURB TO THE PROPERTY LINE/STORE FRONT IMPROVEMENTS WITH DIRECTION OF FLOW TOWARDS CURB. SEE TYPICAL SECTION "D" AND DETAIL "C" SHEET 4.
3. CONSTRUCT 6" CONCRETE CURB PER SANTA BARBARA COUNTY DEPARTMENT OF PUBLIC WORKS STANDARD DETAIL 3-100, A1-6 CURB, REVISED THAT ALL CONCRETE SHALL BE 650-CW-4000P PER GREENBOOK. ADJUST CURB HEIGHT TO JOIN EXISTING.
4. CONSTRUCT OPEN TREE WELL IN CONCRETE SIDEWALK WITH CONCRETE CUTOFF WALLS AND MODIFIED CURB DETAIL. PROVIDE OLYMPIC FOUNDRY INC. 48" SQUARE "SP" TREE GRATE WITH LIGHT HOLE AND STYLE "G1" TREE GRATE FRAME. SEE DETAILS "E", "F" AND "G" ON SHEET 4. TREE TO BE PLANTED BY OTHERS.
5. SET SALVAGED FLAG POLE SLEEVE CENTERED 12" FROM BACK OF CURB AND AS DIMENSIONED ON PLAN. SLEEVE SHALL BE CAST IN PLACE OR CORED AND SET WITH EPOXY.
6. CONSTRUCT 6" THICK AC PAVEMENT TO MATCH THICKNESS OF CONCRETE GUTTER. CLASS 2 AGGREGATE BASE SHALL BE REPLACED TO MATCH DEPTH REQUIRED UNDER PROPOSED CONCRETE CURB AND GUTTER.
7. SEE ELECTRICAL PLANS FOR ELECTRICAL IMPROVEMENTS, SHEETS E1 AND E2.
9. ADJUST STREET LIGHT BASEPLATE TO GRADE AS REQUIRED. INSTALL NONSHRINK GROUT BETWEEN FINISH SIDEWALK GRADE AND STREET LIGHT BASE.
11. PLACE SALVAGED TRASH CAN IN CENTER OF THE SIDEWALK SQUARE. CENTER OF CAN SHALL BE 30" FROM BACK OF CURB.

FOR REDUCED PLANS
ORIGINAL SCALE IN INCHES
0 1 2 3

NO.	DATE	REVISIONS	APPD.

Penfield & Smith
Engineering · Surveying · Planning · Construction Management
111 East Victoria Street, Santa Barbara, CA 93101
Phone: (805) 963-9532 Fax: (805) 966-9801

DESIGN NPZ CHECKED
BRET FOSTER DATE:
PROJECT ENGINEER
R.C.E. 48,267

REGISTERED PROFESSIONAL ENGINEER BRET E. FOSTER NO 48267 CIVIL STATE OF CALIFORNIA

CITY OF CARPINTERIA
REVIEWED BY:
SIGNATURE DATE

DRAFT

LINDEN AVENUE
CONCRETE REPAIR PROJECT
DEMOLITION AND IMPROVEMENT PLAN
CARPINTERIA, CALIFORNIA

P&S PROJECT NO. 20193.01
SHEET 2 OF 4
PLAN DATE JANUARY 13, 2012

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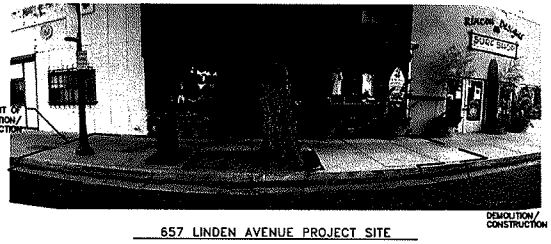
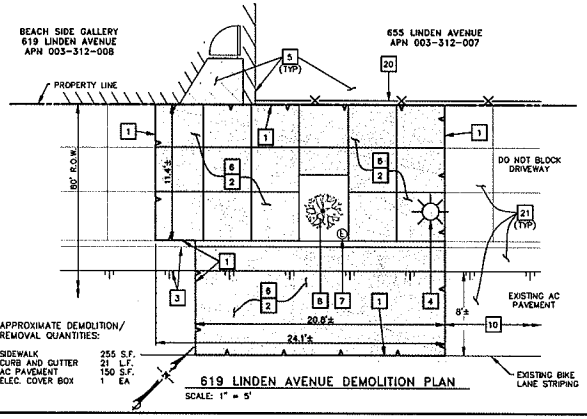
619 LINDEN AVENUE PROJECT SITE



657 LINDEN AVENUE PROJECT SITE

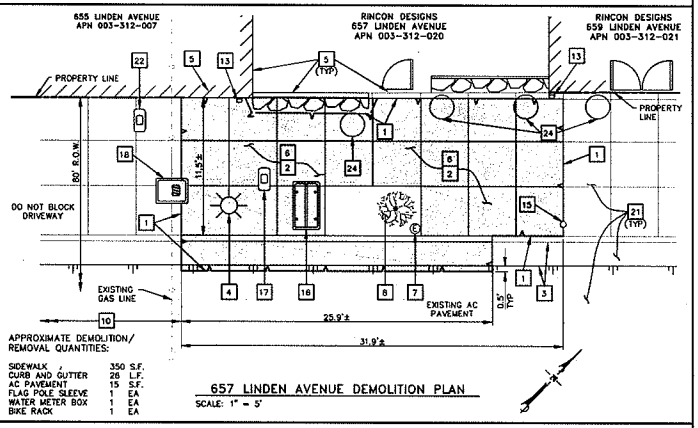


APPROXIMATE DEMOLITION/ REMOVAL QUANTITIES:

SIDEWALK	255	S.F.
CURB AND GUTTER	21	L.F.
AC PAVEMENT	150	S.F.
ELEC. COVER BOX	1	EA

619 LINDEN AVENUE DEMOLITION PLAN

SCALE: 1" = 5'

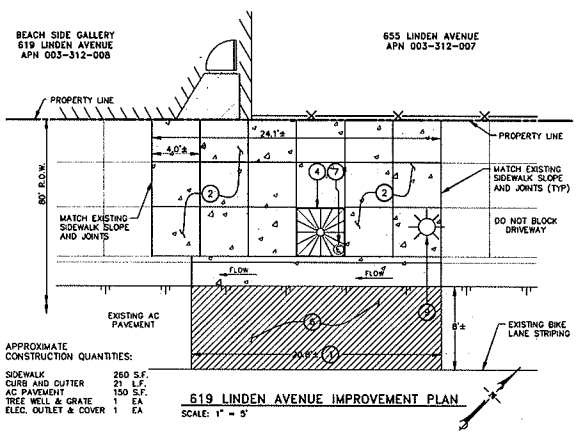


APPROXIMATE DEMOLITION/ REMOVAL QUANTITIES:

SIDEWALK	350	S.F.
CURB AND GUTTER	26	L.F.
AC PAVEMENT	15	S.F.
FLAG POLE SLEEVE	1	EA
WATER METER BOX	1	EA
BIKE RACK	1	EA

657 LINDEN AVENUE DEMOLITION PLAN

SCALE: 1" = 5'

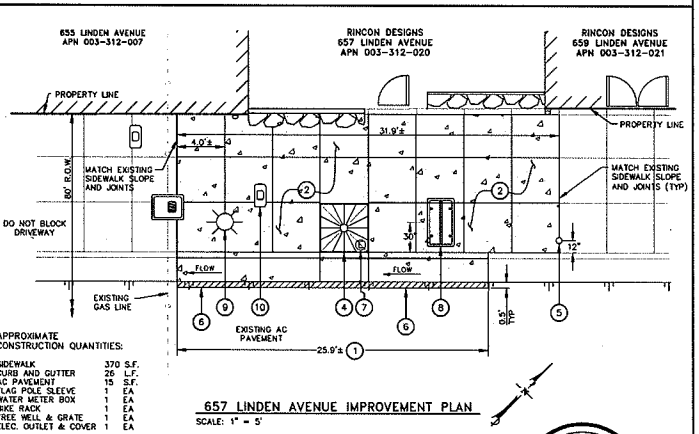


APPROXIMATE CONSTRUCTION QUANTITIES:

SIDEWALK	260	S.F.
CURB AND GUTTER	21	L.F.
AC PAVEMENT	150	S.F.
TREE WELL & GRATE	1	EA
ELEC. OUTLET & COVER	1	EA

619 LINDEN AVENUE IMPROVEMENT PLAN

SCALE: 1" = 5'



APPROXIMATE CONSTRUCTION QUANTITIES:

SIDEWALK	370	S.F.
CURB AND GUTTER	26	L.F.
AC PAVEMENT	15	S.F.
FLAG POLE SLEEVE	1	EA
WATER METER BOX	1	EA
BIKE RACK	1	EA
TREE WELL & GRATE	1	EA
ELEC. OUTLET & COVER	1	EA

657 LINDEN AVENUE IMPROVEMENT PLAN

SCALE: 1" = 5'

DEMOLITION/REMOVAL NOTES

1. SAWCUT CONCRETE CURB, GUTTER, AC PAVEMENT AND SIDEWALK AT IDENTIFIED JOINT LOCATIONS, BACK OF SIDEWALK, AND GUTTER LIP TO PROVIDE A CLEAN, SMOOTH JOIN LINE. DO NOT CUT, DISTURB, OR DAMAGE EXISTING IMPROVEMENTS. SEE DETAILS "A" AND "B" SHEET 4. LIMITS OF REMOVAL SHALL BE REVIEWED AND APPROVED BY THE DEPARTMENT OF PUBLIC WORKS PRIOR TO START OF CONSTRUCTION.
2. AFTER SAWCUTTING, REMOVE EXISTING CONCRETE CURB, GUTTER, AND SIDEWALK AND AC PAVEMENT AND RECYCLE MATERIALS. ANY AREA WHERE SAWCUT IS UNABLE TO EXTEND TO LIMIT OF DEMOLITION CONCRETE IS TO BE CAREFULLY CHIPPED AWAY AND REMOVED. SEE DETAILS "A" AND "B" SHEET 4.
3. PROTECT IN PLACE EXISTING INTEGRAL 6" CURB AND 24" GUTTER.
4. PROTECT EXISTING STREET LIGHT.
5. PROTECT IN PLACE PRIVATE PROPERTY INCLUDING BUILDING WALLS, CONCRETE OR TILE FLOORING, PLANTERS, ETC.
6. WITHIN THE LIMITS OF CONCRETE CURB, GUTTER, SIDEWALK, AND AC PAVEMENT REMOVAL, CONTRACTOR SHALL REMOVE ALL ROOTS 2" OR LARGER WITHIN THE TOP 18" OF SOIL AS MEASURED FROM FINISHED SUBGRADE. CARE SHALL BE TAKEN TO PROTECT EXISTING SUBSURFACE UTILITIES FROM DAMAGE.
7. SEE ELECTRICAL PLANS FOR ELECTRICAL DEMOLITION, SHEETS E1 AND E2.
8. GRIND AND REMOVE TREE ROOTS IN PLANTER AREA. ROOT REMOVAL SHALL EXTEND TO 48" BELOW SUBGRADE. CARE SHALL BE TAKEN TO PROTECT SUBSURFACE UTILITIES FROM DAMAGE.
10. PROTECT IN PLACE COMMERCIAL DRIVEWAY.
13. PROTECT IN PLACE ROOF DRAIN.
15. REMOVE AND SALVAGE FLAG POLE SLEEVE.
16. CAREFULLY REMOVE AND SALVAGE BIKE RACK. STORE RACK IN CONTRACTORS YARD UNTIL READY TO REINSTALL.
17. REMOVE DAMAGED WATER METER BOX.
18. PROTECT IN PLACE GAS METER BOX.
20. PROTECT IN PLACE CHAIN LINK FENCE.
21. PROTECT EXISTING IMPROVEMENTS IN PLACE.
22. PROTECT IN PLACE WATER METER.
24. CONTRACTOR TO COORDINATE WITH BUSINESS OWNER ON THE REMOVAL, PROTECTION, AND RELOCATION OF OAK BARREL PLANTERS

CONSTRUCTION NOTES

1. CONSTRUCT CURB APPROXIMATELY 6½" HIGH AND 24" WIDE GUTTER IN ACCORDANCE WITH SANTA BARBARA COUNTY DEPARTMENT OF PUBLIC WORKS STANDARD DETAILS 3-100 SB-24 CURB AND 3-110, REVISED THAT ALL CONCRETE SHALL BE 650-CW-4000P PER GREENBOOK. MATCH GRADE AT JOIN LOCATIONS AND STRAIGHT GRADE BETWEEN JOIN POINTS BEING CAREFUL TO MAINTAIN POSITIVE SLOPE FOR ENTIRE LENGTH WITH FLOW IN THE DIRECTION AS SHOWN ON PLAN. MINIMUM SLOPE 0.50%. SEE TYPICAL SECTION "D" SHEET 4.
2. CONSTRUCT MINIMUM 4" THICK SIDEWALK IN ACCORDANCE WITH SANTA BARBARA COUNTY DEPARTMENT OF PUBLIC WORKS STANDARD DETAILS 4-040 AND 3-110, REVISED THAT ALL CONCRETE SHALL BE 650-CW-4000P PER GREENBOOK. SIDEWALK JOINTS SHALL BE EVENLY SPACED FOR THE ENTIRE SPAN OF CONSTRUCTION IN THE DIRECTION OF TRAVEL ALONG LINDEN AVENUE. MATCH GRADE AT JOIN POINTS AND STRAIGHT GRADE FROM BACK OF CURB TO THE PROPERTY LINE/STORE FRONT IMPROVEMENTS WITH DIRECTION OF FLOW TOWARDS CURB. SEE TYPICAL SECTION "D" AND DETAIL "C" SHEET 4.
4. CONSTRUCT OPEN TREE WELL IN CONCRETE SIDEWALK WITH CONCRETE CUTOFF WALLS AND MODIFIED CURB DETAIL. PROVIDE OLYMPIC FOUNDRY INC. 48" SQUARE "SP" TREE GRATE WITH LIGHT HOLE AND STYLE "O1" TREE GRATE FRAME. SEE DETAILS "E", "F" AND "G" ON SHEET 4. TREE TO BE PLANTED BY OTHERS.
5. SET SALVAGED FLAG POLE SLEEVE CENTERED 12" FROM BACK OF CURB AND AS DIMENSIONED ON PLAN. SLEEVE SHALL BE CAST IN PLACE OR CORED AND SET WITH EPOXY.
6. CONSTRUCT 6" THICK AC PAVEMENT TO MATCH THICKNESS OF CONCRETE GUTTER. CLASS 2 AGGREGATE BASE SHALL BE REPLACED TO MATCH DEPTH REQUIRED UNDER PROPOSED CONCRETE CURB AND GUTTER.
7. SEE ELECTRICAL PLANS FOR ELECTRICAL IMPROVEMENTS, SHEETS E1 AND E2.
8. PLACE SALVAGED BIKE RACK CENTERED 30" FROM BACK OF CURB AND AS DIMENSIONED ON PLAN.
9. ADJUST STREET LIGHT BASEPLATE TO GRADE AS REQUIRED. INSTALL NONSHRINK GROUT BETWEEN FINISH SIDEWALK GRADE AND STREET LIGHT BASE.
10. INSTALL NEW WATER METER BOX.

811 Know what's below. Call before you dig.

SCALE: 1"=10'

0 10 20 30

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0 1 2 3

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DESIGN NPZ CHECKED

BRET FOSTER DATE:

PROJECT ENGINEER

R.C.E. 48,267

REGISTERED PROFESSIONAL ENGINEER BRETE. FOSTER NO 48267 CIVIL STATE OF CALIFORNIA

CITY OF CARPINTERIA

REVIEWED BY:

SIGNATURE DATE

DRAFT

LINDEN AVENUE CONCRETE REPAIR PROJECT DEMOLITION AND IMPROVEMENT PLAN

CARPINTERIA, CALIFORNIA

P&S PROJECT NO. 20193.01

SHEET 3 OF 4

PLAN DATE JANUARY 13, 2012

PLOT SCALE:1:2.58 PLOT DATE:1/13/2012 1:01:28 PM PLOT BY:Nick Zemke

34-ENG SAVE DATE: 1/13/2012 12:58:03 PM

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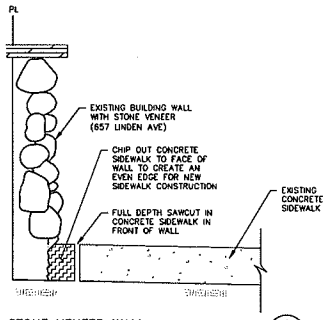
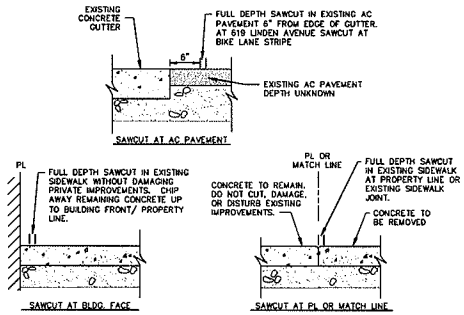
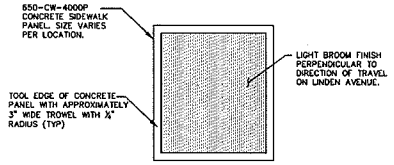


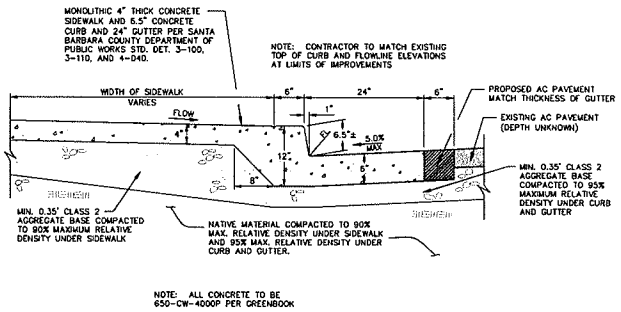
STONE VENEER WALL (A)
SCALE: N.T.S.



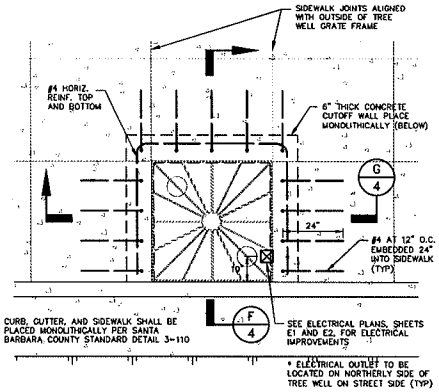
SAWCUT DETAILS (B)
SCALE: 1" = 1'



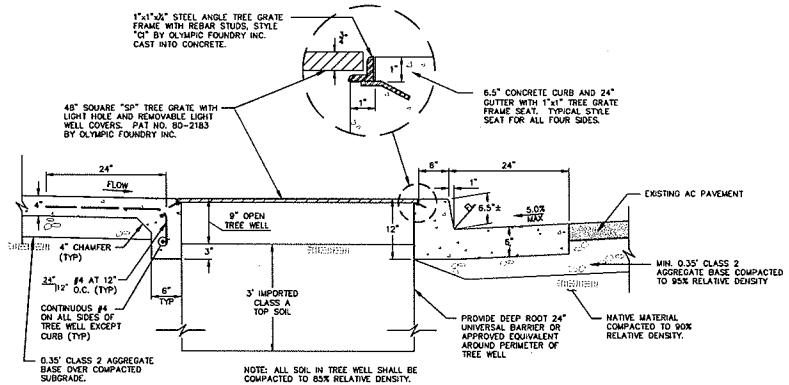
CONCRETE SIDEWALK FINISH (C)
SCALE: N.T.S.



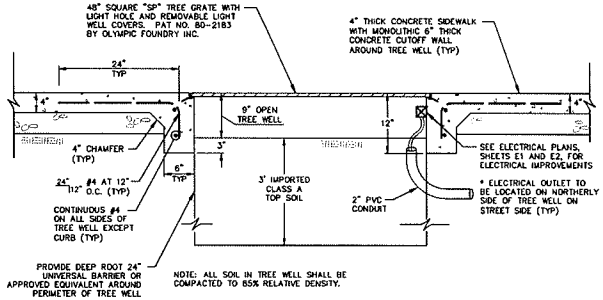
TYPICAL SECTION (D)
SCALE: 1" = 1'



TREE WELL PLAN VIEW (E)
SCALE: 1"=2'



TREE WELL SECTION WITH MODIFIED CURB (F)
SCALE: 1"=1'



TREE WELL SECTION (G)
SCALE: 1"=1'

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BRET FOSTER DATE:
PROJECT ENGINEER
R.C.E. 48,267

REGISTERED PROFESSIONAL ENGINEER BRET E. FOSTER NO 48267 CIVIL STATE OF CALIFORNIA

CITY OF CARPINTERIA
REVIEWED BY:
SIGNATURE DATE

DRAFT

LINDEN AVENUE
CONCRETE REPAIR PROJECT
CONSTRUCTION DETAILS
CARPINTERIA, CALIFORNIA

P&S PROJECT NO. 20193.01
SHEET 4 OF 4
PLAN DATE JANUARY 13, 2012

PLOT SCALE:1:2.58 PLOT DATE:1/13/2012 1:01:53 PM PLOT BY:Nick Zemke J4-ENG SAVE DATE: 1/13/2012 12:56:03 PM

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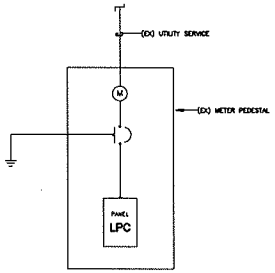

NOTE: METER PEDESTAL AND PANELBOARD ARE EXISTING

SINGLE LINE DIAGRAM

N.T.S.

(EX) PANEL "A"

BUS: 100A MCB 120/240V, 1PH, 3W

MOUNTING: PEDESTAL SEE DETAIL

CIRCUIT	A	B		C.B.	CIRCUIT NUMBER		C.B.	A	B		CIRCUIT
TREE OUTLETS	360			* 20/1	1	2	* 20/1	360			TREE OUTLETS
		360		*	3	4	*		360		
SPACE	--			--	5	6		500			IRRIGATION CONTROLLER
		--			7	8	--		--		SPACE
	--				9	10	--				
		--		--	11	12	--		--		
* LONG CONTINUOUS LOAD (LCL)				CONNECTED LOAD				1.22	0.72		1.94 KVA
* EXISTING CIRCUIT WITH NEW LOAD											0.00 LCL
											1.94 TOTAL KVA

ELECTRICAL SPECIFICATION NOTES

PROVIDE ALL POWER, LIGHTING, AND SIGNAL SYSTEM WORK, AND MATERIALS AS SHOWN ON THE DRAWINGS, AS CALLED FOR HEREIN, AND AS IS NECESSARY TO FURNISH A COMPLETE INSTALLATION.

THE INSTALLATION SHALL CONFORM WITH ALL THE REQUIREMENTS OF THE CURRENT NATIONAL ELECTRICAL CODE, STATE OF CALIFORNIA TITLE 24, ALL APPLICABLE CODES AND ORDINANCES AND THE REQUIREMENTS OF THE FIRE MARSHAL. ALL EQUIPMENT AND WIRING SHALL BEAR THE APPROVAL STAMP OF THE UNDERWRITERS' LABORATORY (UL) OR AN APPROVED TESTING LABORATORY. PAYMENT FOR ALL PERMITS AND INSPECTION FEES IS PART OF THIS CONTRACT.

THE RESPONSIBILITY FOR THE SAFETY AND GOOD CONDITION OF ALL MATERIALS AND EQUIPMENT FOR THE ENTIRE INSTALLATION, UNIT COMPLETION OF WORK, SHALL BE INCLUDED WITH THE WORK OF THIS CONTRACT. ERECT AND MAINTAIN APPROVED AND SUITABLE BARRIERS, PROTECTIVE DEVICES AND WARNING SIGNS AND BE FULLY RESPONSIBLE FOR ANY LOSS OR INJURY TO PERSONS OR PROPERTY RESULTING FROM NEGLECTS IN MAINTAINING AND/OR ENFORCING ALL SAFETY PRECAUTIONS AND WARNINGS.

COORDINATE THE ELECTRICAL INSTALLATION WITH ALL OTHER TRADES.

ALL CUTTING AND PATCHING SHALL BE PART OF THIS CONTRACT.

RACEWAYS FOR ALL CONDUCTORS SHALL BE SCHEDULE 40 PVC. A SUITABLE GROUNDING CONDUCTOR SHALL BE INSTALLED IN ALL CONDUIT RUNS. NOTE THAT THIS CONDUCTOR IS NOT NECESSARILY SHOWN ON THE DRAWINGS.

OUTLET AND JUNCTION BOXES SHALL BE 4" SQUARE BY 1-1/2" DEEP, OR LARGER, GALVANIZED STEEL.

ALL WIRING SHALL BE COPPER. INSULATION FOR BRANCH CIRCUIT CONDUCTORS SHALL BE TYPE "THHN". IN AREAS WHERE CONDUCTORS MAY BE EXPOSED TO WATER, CONDUCTORS SHALL BE "THWN". CONDUCTORS LARGER THAN #6 AWG MAY BE TYPE "THW". PROVIDE BRANCH CIRCUIT WIRING, OUTLETS, DEVICES AND CONNECTIONS TO ALL EQUIPMENT.

(5) COPIES OF SUBMITTAL DRAWINGS ARE REQUIRED FOR DEVICES AND COVER PLATES.

INFORMATION SHOWN WAS GAINED FROM "AS-BUILT" DRAWINGS. VISIT THE SITE PRIOR TO BID TO VERIFY EXISTING CONDITIONS AND MAKE ALLOWANCES FOR VARIATIONS TO THAT WHICH IS SHOWN.

PROVIDE ALL MATERIALS AND WORK REQUIRED TO LOCATE AND CONNECT TO EXISTING DISTRIBUTION EQUIPMENT. UPDATE EXISTING PANELBOARDS WITH NEW TYPEWRITTEN CIRCUIT DIRECTORIES AND FURNISH NEW CIRCUIT BREAKERS AS REQUIRED. RECONNECT ANY BRANCH CIRCUITS INTERRUPTED DURING DEMOLITION THAT ARE TO REMAIN.

RE-USE OF EXISTING BRANCH CIRCUIT CONDUITS AND WIRING IS ACCEPTABLE IF IN COMPLIANCE WITH NEC AND APPROVED BY LOCAL AUTHORITIES.

ELECTRICAL SYMBOL LIST

(ALL MOUNTING HEIGHTS SHOWN ARE MEASURED TO BOTTOM OF OUTLET BOX)

WALL MOUNTED RECEPTACLES (+15" TYP.)

- GROUND FAULT INTERRUPTER
- 20 AMP. SINGLE 120 VOLT (NEMA 5-20R)
- 20 AMP. DUPLEX, 240V (NEMA 6-20R, UON)
- 20 AMP. DOUBLE DUPLEX
- 20 AMP. DUPLEX (HALF SWITCHED)
- SPECIAL OUTLET
- ISOLATED GROUND
- CEILING MOUNTED RECEPTACLE
- CLOCK HANGER OUTLET (+88" TYP.)

FLOOR OUTLETS

- 20 AMP. DUPLEX 120 VOLT
- FLUSH FLOOR BOX
- TELEPHONE
- FLUSH FLOOR COUPLING
- COMBINATION POWER & COMMUNICATIONS

SWITCHES & CONTROLS (+42" TYP.)

- S — S.P.S.T. LIGHT SWITCH
- S_2 — D.P.S.T. LIGHT SWITCH
- S_3 — 3-WAY LIGHT SWITCH
- S_4 — 4-WAY LIGHT SWITCH
- S_P — PILOT LIGHT
- S_D — DOOR OPERATED
- S_T — TIMER
- S_K — KEY OPERATED
- S_M — MANUAL STARTER
- TS — TIME SWITCH
- D — DIMMER (LUTRON ARIADNI, UON)
- D3 — 3-WAY DIMMER (LUTRON ARIADNI, UON)
- D4 — 4-WAY DIMMER (LUTRON MAESTRO, UON)
- T — THERMOSTAT (+48" TYP.)
- PC — 2000W PHOTOCELL RELAY, UON
- MS — MOTION SENSOR
- P — PUSH BUTTON
- VS — VACANCY SENSOR (WATTSTOPPER RS250, UON)
- VS2 — DUAL RELAY VACANCY SENSOR (WATTSTOPPER RS350, UON)
- VSD — VACANCY SENSOR DIMMER (WATTSTOPPER RD200)

EQUIPMENT OUTLETS & CABINETS

- JUNCTION BOX
- FLEXIBLE CONNECTION
- MOTOR OUTLET
- DISCONNECT SWITCH
- MAGNETIC STARTER
- RELAY OR CONTACTOR
- SURFACE PANELBOARD
- RECESSED PANELBOARD
- TERMINAL PANELBOARD
- DISTRIBUTION EQUIPMENT
- T — TRANSFORMER

LIGHTING FIXTURES

- FIXTURE TYPE / INPUT WATTAGE
- FLUORESCENT
- PENDANT MOUNTED
- RECESSED DIRECTIONAL
- SURFACE DIRECTIONAL
- CEILING SURFACE

OR: RECESSED, WALL SURFACE, POLE MOUNTED, FLOODLIGHT, TRACK LIGHT, EXIT SIGN, EXIT/EM LIGHT

- EMERGENCY LIGHT (WITH UBC REQUIRED 90MIN BATTERY BACKUP SYSTEM)

CONDUIT & WIRES

- ABOVE GROUND / FLOOR CONDUIT
- BELOW GROUND / FLOOR CONDUIT
- CAPPED CONDUIT STUB-OUT
- SURFACE WIREMOLD RACEWAY
- (5)#12 (MAX.) IN 1/2" CONDUIT
- (8)#12 (MAX.) IN 3/4" CONDUIT
- (12)#12 (MAX.) IN 1" CONDUIT
- 3/4" CO. STUB TO ACCESS. AREA

FIRE ALARM

- SMOKE DETECTOR
- DUCT DETECTOR
- WP EXTERIOR BELL
- HORN/STROBE (+88")
- MAGNETIC DOOR HOLDER
- VISUAL ALARM (+88", 15 cd STROBE, UON)
- MANUAL PULL STATION (+48" TYP)
- ADDRESSIBLE RELAY
- ANNUNCIATOR PANEL
- REMOTE POWER SUPPLY (POWER EXTENDER)
- MAIN FIRE ALARM CONTROL PANEL
- FLOW SWITCH
- TAMPER SWITCH
- HEAT DETECTOR
- CHIME
- HORN

COMMUNICATIONS OUTLETS

- SPEAKER
- S_V — VOLUME CONTROL
- TELEVISION (+15" TYP)
- TELEPHONE/DATA WITH 3/4"CO INTO ACCESSIBLE CEILING SPACE
- MICROPHONE JACK (+15" TYP)

LETTER DESIGNATIONS

CO	CONDUIT ONLY (W/PULL CORD)	NIC	NOT IN CONTRACT
WP	WEATHERPROOF (NEMA 3R)	MCA	MINIMUM CIRCUIT AMPS
GWS	GANG WITH SWITCH (+42" TYP)	UON	UNLESS OTHERWISE NOTED
DNS	DO NOT SWITCH	EX	EXISTING, TO REMAIN
GFI	GROUND FAULT INTERRUPTER	EXR	EXISTING, TO BE REMOVED
NL	NIGHT LIGHT, DO NOT SWITCH	EXRL	EXISTING, TO BE RELOCATED
VFD	VARIABLE FREQUENCY DRIVE	N	NEW
TS	CONTROLLED BY TIME SWITCH	FLA	FULL LOAD AMPS
PEC	CONTROLLED BY PHOTOCELL	MFS	MAXIMUM FUSE SIZE
MS	CONTROLLED BY MOTION SENSOR	AF	AMP FUSED
CB	CIRCUIT BREAKER	AIC	AMPERE INTERUPTING CAPACITY
FSW	FUSED SWITCH	AFC	AVAILABLE FAULT CURRENT
NF	NON-FUSED SWITCH	C	CONDUIT
MCP	MOTOR CIRCUIT PROTECTOR	GRD	GROUND
XFMR	TRANSFORMER	CAT5	CATEGORY 5 UTP CBLE
AHJ	AUTHORITY HAVING JURISDICTION	OC	ON CENTER (SPACING)
UC	UNDER CABINET	EM	EMERGENCY
TYP	TYPICAL (STANDARD)	ARCH	ARCHITECT

SPECIAL SYMBOLS

REGISTERED PROFESSIONAL ENGINEER BRIAN S. SMITH No. E013491 EXP. 08-30-12 ELECTRICAL STATE OF CALIFORNIA

Smith Engineering Associates
Electrical Engineering • Lighting Design

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BRET FOSTER DATE
PROJECT ENGINEER
R.C.E. 48,267

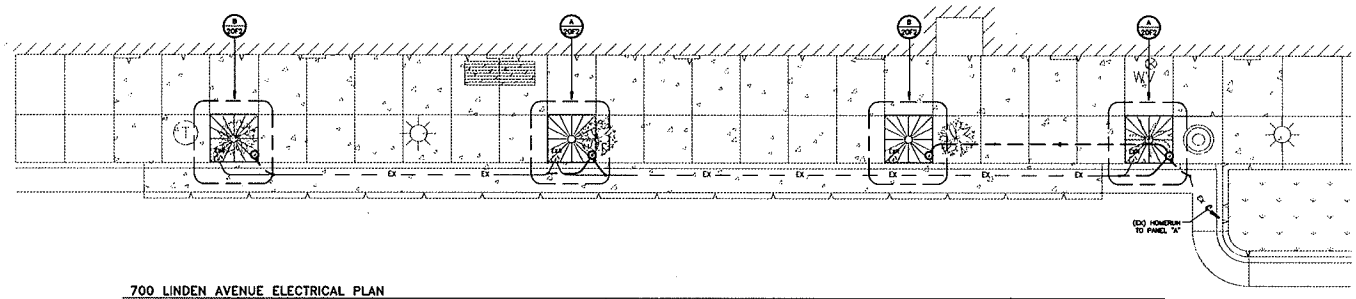
CITY OF CARPINTERIA
REVIEWED BY:
SIGNATURE DATE

LINDEN AVENUE
CONCRETE REPAIR PROJECT
SYMBOLS, SPECS AND 1-LINE DIAGRAM
CARPINTERIA, CALIFORNIA

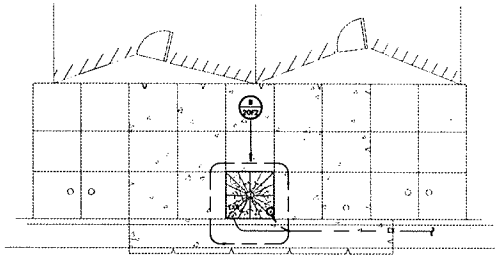
DRAFT

P&S PROJECT NO. 20193.01
SHEET E1 OF 2
PLAN DATE JANUARY 13, 2012

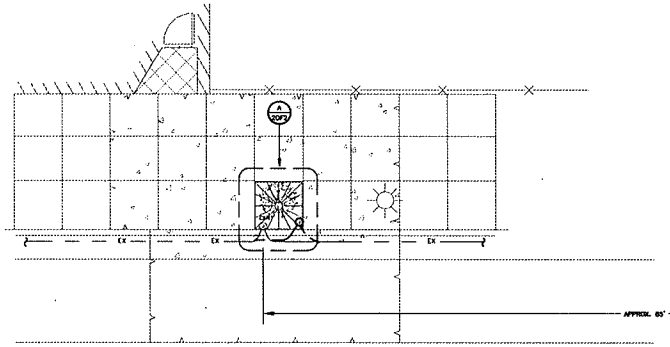
34-ENG SAVE DATE: 1/13/2012 10:42:26 AM PLOT BY: Yonet Barrera PLOT DATE: 1/13/2012 10:44:38 AM PLOT SCALE: 1:1.1934



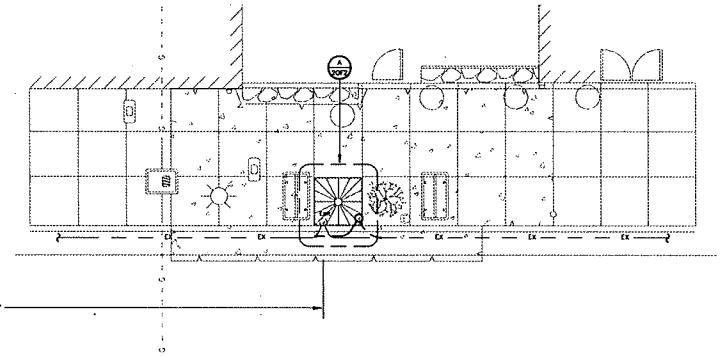
700 LINDEN AVENUE ELECTRICAL PLAN
SCALE: 1" = 5'



929 LINDEN AVENUE ELECTRICAL PLAN
SCALE: 1" = 5'



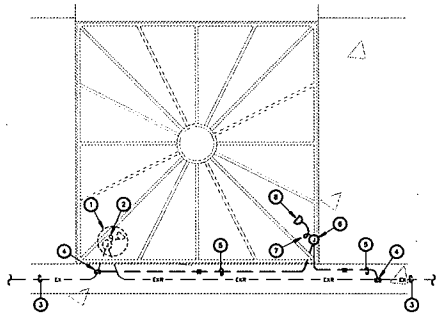
619 LINDEN AVENUE ELECTRICAL PLAN
SCALE: 1" = 5'



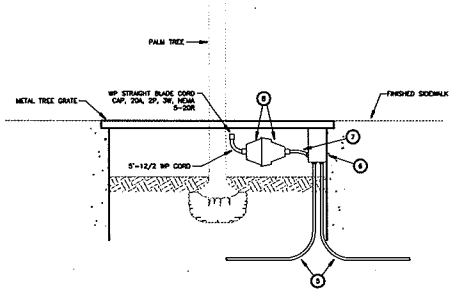
657 LINDEN AVENUE ELECTRICAL PLAN
SCALE: 1" = 5'

NOTES

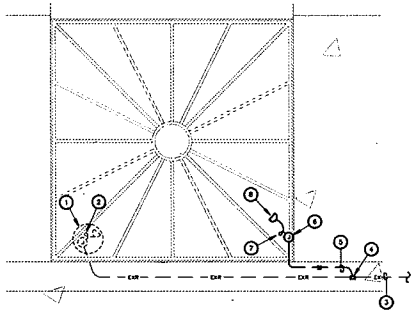
1. DISCONNECT AND REMOVE (DX) ROUND PVC PULLBOX IN PLANTER.
2. DISCONNECT AND REMOVE (DX) 4x4 PVC J-BOX, SO CORD, AND WEATHERPROOF PLUG FOR TREE LIGHTS.
3. LOCATE AND INTERCEPT (DX) PVC CONDUIT SERVING PLANTER PLUGS. EXCAVATE UNDER (DX) CURB/ROADWAY TO EXPOSE CONDUIT. REMOVE/REPLACE (DX) BRANCH CIRCUIT WIRING BACK TO NEAREST J-BOX TO ALLOW RELOCATION OF J-BOX TO SIDE WALL OF PLANTER.
4. INTERCEPT (DX) CONDUIT AND EXTEND TO (N) J-BOX.
5. (N) 1" (2) #12 + (1) #12 GRD.
6. (N) 4"x4"x4" PVC J-BOX WITH NEOPRENE GASKETED COVER. PROVIDE WEATHERPROOF CORD CONNECTOR IN FACE OF COVER PLATE.
7. (N) 12/2 + GRD WEATHERPROOF SO CORD. RE-USE (DX) WHERE AVAILABLE AND IN GOOD CONDITION. PROVIDE (N) FOR PLANTERS RECEIVING (N) OUTLETS.
8. WATERTIGHT CORD CONNECTOR (HUBBELL #320C4W) AND PLUG (HUBBELL #320P4W). RE-USE (DX) WHERE AVAILABLE AND IN GOOD CONDITION.



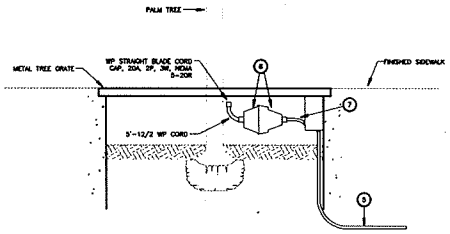
(A) ENLARGED ELECTRICAL PLAN
SCALE: 1" = 1'-0"



TREE WELL OUTLET MOUNTING DETAIL
NOT TO SCALE



(B) ENLARGED ELECTRICAL PLAN
SCALE: 1" = 1'-0"



TREE WELL OUTLET MOUNTING DETAIL
NOT TO SCALE

REGISTERED PROFESSIONAL ENGINEER BRIAN S. SMITH No. (01348) EXP. 09-30-12 ELECTRICAL STATE OF CALIFORNIA

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Electrical Engineering · Lighting Design

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LINDEN AVENUE
CONCRETE REPAIR PROJECT
ELECTRICAL PLANS AND DETAILS
CARPINTERIA, CALIFORNIA

DRAFT

P&S PROJECT NO. 20193.01
SHEET E2 OF 2
PLAN DATE JANUARY 13, 2012

34-ENG SAVE DATE: 1/13/2012 10:42:08 AM PLOT BY: Janet Barrera PLOT DATE: 1/13/2012 10:44:45 AM PLOT SCALE: 1:1